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OCCUPATIONAL SURVEY REPORT



ELECTRONICS PRINCIPLES OCCUPATONAL SURVEY REPORT, INTEGRATED AVIONIC SYSTEMS CAREER LADDER AFSCS 326X2A, 326X2B AND 326X2C #

A AFPT-90-326-222

// 27 DECEMBER 1976

OCCUPATIONAL SURVEY BRANCH

USAF OCCUPATIONAL MEASUREMENT CENTER LACKLAND AFB TEXAS 78236

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PREFACE

This report presents a summary of the results of a detailed Air Force Electronics Principles survey of the Integrated Avionics Systems specialties, 326X2A, B, and C shreds.

The Electronics Principles Inventory (EPI) was developed by Major Thomas J. O'Connor and Mr. Hendrick W. Ruck and the survey data were analyzed by Major O'Connor and Mr. Guy B. Cole. All are members of the Occupational Survey Branch, USAF Occupational Measurement Center, Lackland AFB, Texas.

Computer programs for analyzing the data were designed by Dr. Raymond E. Christal, Occupational and Manpower Research Division, Air Force Human Resources Laboratory (AFHRL), and were written by the Project Analysis and Programming Branch, Computational Sciences Division, AFHRL.

Distribution of this report is made upon request to the USAF Occupational Measurement Center, attention of the Chief, Occupational Survey Branch (OMY), Lackland AFB, Texas 78236.

This report has been reviewed and is approved.

JAMES A. TURNER, JR., Colonel, USAF Commander USAF Occupational Measurement Center WALTER E. DRISKILL, Ph.D. Chief, Occupational Survey Branch USAF Occupational Measurement Center

ELECTRONICS PRINCIPLES OCCUPATIONAL SURVEY REPORT INTEGRATED AVIONIC SYSTEMS CAREER LADDER AFSCs 326X2A, 326X2B, AND 326X2C

INTRODUCTION

This report summarizes the results of the administration of the Electronics Principles survey to airmen assigned to Integrated Avionic Systems specialties including 326X2A, Inertial/Bomb Navigation, Fire/Weapons Control, Digital Computers, and Multi-sensor Displays; 326X2B, Flight Control, Flight Data Recorders, and Integrated/Mechanical Instrument Duties; and the 326X2C, Communications, Navigation, and ECM Systems. The data for this report were collected during the period 1 May through 30 August, 1976.

This report describes: (1) development and administration of the survey instrument; (2) summaries of background information which reflect the population of the survey sample; and (3) electronics principles used by personnel at various points in their career progression.

DEVELOPMENT OF THE ELECTRONICS PRINCIPLES INVENTORY (EPI)

Development of the EPI involved personnel from the Occupational Survey Branch working on the project who were well qualified in theoretical physics and electronics as well as having expertise in task analysis and survey development. Over 300 maintenance personnel from SAC, TAC, ADC, MAC, and AFCS participated in the development of the inventory. Electronics experts from the five ATC training centers, who averaged 12 years of maintenance experience and four years of electronics principles instruction experience, spent several weeks refining the EPI.

In addition, personnel at the Electrical Engineering Department of the USAF Academy and the Air Force Human Resources Laboratory were consulted during the development of the inventory.

The EPI contained 1,257 items in 62 subject matter areas covering all electronics principles training given at the five ATC technical training centers.

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ADMINISTRATION

MAL SURVEY REPORT

The Electronics Principles Inventory (EPI) was administered in person and by mail to 1,097 airmen worldwide assigned to all shreds of the 326XX career ladders. This total represents approximately 31 percent of the airmen assigned to these career ladders as of 30 June 1976.

This report mainly presents the results of the data from the 326X2 career ladder. Two other separate reports have been written to cover the 326X0 and the 326X1 career ladders. Table I reflects the distribution of assigned personnel and percentage sampled in each of the three shreds of the 326X2 career ladder. Responses were received from over 25 percent of each shred of this ladder.

Development of the EPI involved personnel from the Occupational Surve th working on the project who were well qualified in theoretical physical dectronics as well as having expertise in task analysis and survey

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TABLE 1 326X2 COMMAND REPRESENTATION

13 100	326x2C ASSIGNED S 5 - 16 3 63 63 100%	SAMPLE 3 3 13 65 15 100%	326X2B ASSIGNED S. ASSIGNED S. 11 14 68 100% 1427 146	326X2A OF PERCENT OF D SAMPLE 3 3 16 4 64 64	326 ASSIGNED 7 1 14 4 65 9 100% 164	COMMAND CONUS ATC AFLC SAC AFSC TAC OVERSEAS USAFE TOTAL ASSIGNED TOTAL SAMPLE
	155		146		16	TOTAL SAMPLE
	155		146		164	SAMPLE
	510		427			ASSIGNED
100%	100 %	3001	%001	100%	100%	
13	13	15	12	13	6	ш
						EAS
3 16 3 65	16 3 3 63	. 3 . 5 . 5	4 - II 4 - 68	16 4 4 64	7 1 4 65	
PERCENT OF SAMPLE	326X PERCENT OF ASSIGNED	CENT	326) PERCENT OF ASSIGNED	X2A PERCENT OF SAMPLE	Lill	P 1

SUMMARY OF BACKGROUND INFORMATION FOR 326X2 CAREER LADDER PERSONNEL

Assignment to Career Ladder

Over 60 percent of the respondents in each shred were assigned to their present specialty after completing resident technical training. Of the remainder, most were retrained from another specialty, with a few being reclassified or converted from another career ladder without technical training. None reported direct duty assignment from basic training.

Job Satisfaction

Table 2 compares Avionics Systems (326X2) personnel with members in the 326X0 and 326X1 career ladders in terms of job satisfaction. Also shown is data reflecting the job satisfaction of incumbents in other Air Force specialties surveyed in 1975. Personnel in the A shred of the 326X0, the D shred of 326X1, and the C shred of 326X2 find their jobs less interesting than members of the other shreds within the same career ladder.

Perceived Utilization of Talents and Training

Table 3 presents the perceived utilization of talents and training factors for the 326X0 shreds, the 326X1 shreds, and the 326X2 shreds. For comparison purposes, the average results from 35 other career ladders surveyed in 1975 are also given. The survey data reflect that 42 percent of the 326X0A personnel, 45 percent of 326X1D personnel, and 41 percent of the 326X2C personnel felt that their training was being utilized very little or not at all. A similar pattern is noted for these same AFSCs when comparing how their job utilizes their talents. A highly significant finding is that 63 percent of the 326X2C personnel perceive that their job utilizes their talents very little or not at all.

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JOB SATISFACTION

(PERCENT MEMBERS RESPONDING)

I FIND MY JOB:	326X0A (N=36)	326X0B (N=70)	326X0C* (N=3)	326x0D (N=33)	326x1C (N≈70)	326x10 (N=147)	326X1E (N=87)	326x2A (N=164)	326x2B (N=146)	326X2C (N=155)	OTHER AF SPECIALTIES (N=21,107) **
INTERESTING SO-SO DULL NOT RESPONDING	59 22 19	80 7 13	33	07 9 85 E	74 10 16	54 23 -	۲8E .	59 21 19	220 23 24 24 24 24 24 24 24 24 24 24 24 24 24	39	69 15 16

* Survey sample too limited for significant results

** Based on responses from incumbents in 35 other career ladders surveyed during 1975.

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TABLE 3
PERCEIVED UTILIZATION OF TALENTS AND TRAINING
TOTAL SAMPLE BY SHRED
(PERCENT MEMBERS RESPONDING)

04 77 66 /0 64 66	2					42 16 33 30 33 45 25 25 25	42 16 33 30 33 45 25 25 17 17 17 17 17 17 17 17 17 17 17 17 17
				DE LITTE ZEC MY TRAINING.	08 UTILIZES MY TRAINING:	42 16 33 30 33 45 25 25	42 16 33 30 33 45 25 25 17 33 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3
DB UTILIZES MY TRAINING: 1 LITTLE OR NOT AT ALL 42 16 33 30 33 45 25 25 25 25 25 25 25 25 25 25 25 25 25	42 16 33 30 33 45 25 25 17 33 - 33 33 33 38 45 17 33 - 33 34 21 42 35	42 16 33 30 33 45 25 17 33 - 33 34 21 42 42	42 16 33 30 33 45 25 25 17 33 - 33 33 33 38 41 51 67 34 34 21 42 35	.L 42 16 33 30 33 45 25 25 17 17 33 - 33 33 33 33 38 48 51 67 34 34 21 42 35	17 33 - 33 33 33 38 38 42 81 42 35	41 51 67 34 34 21 42 35	

* Survey sample too limited for significant results

** Based on responses from incumbents in 35 other career ladders surveyed during 1975.

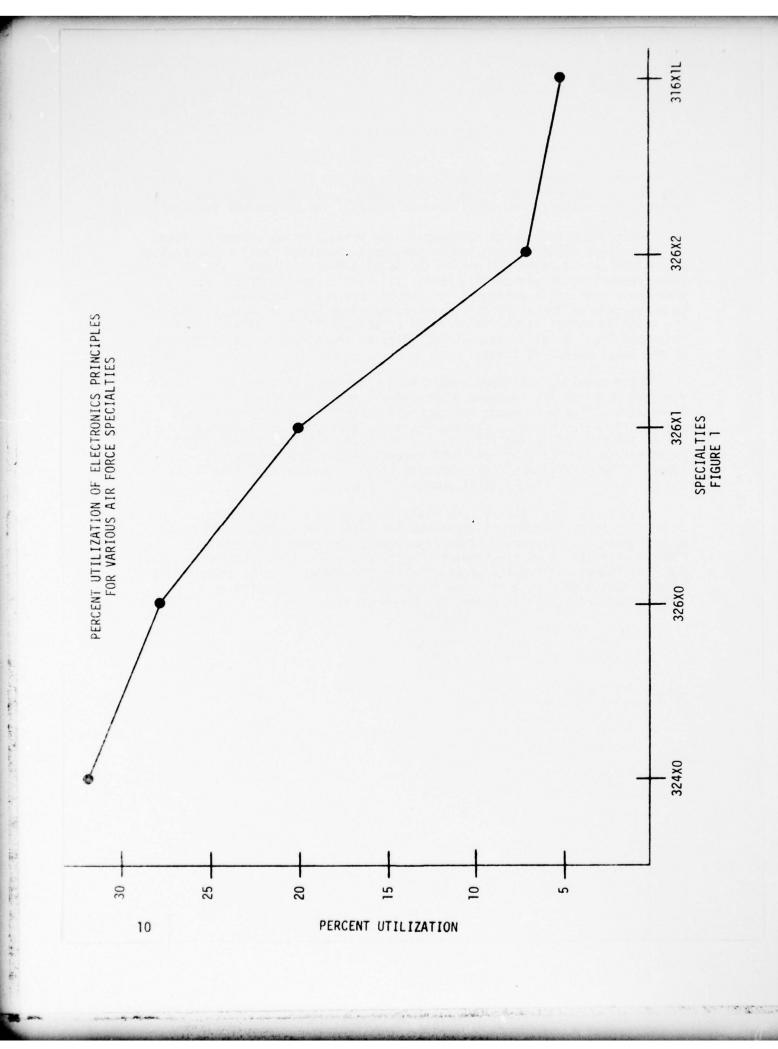
GENERAL RESULTS

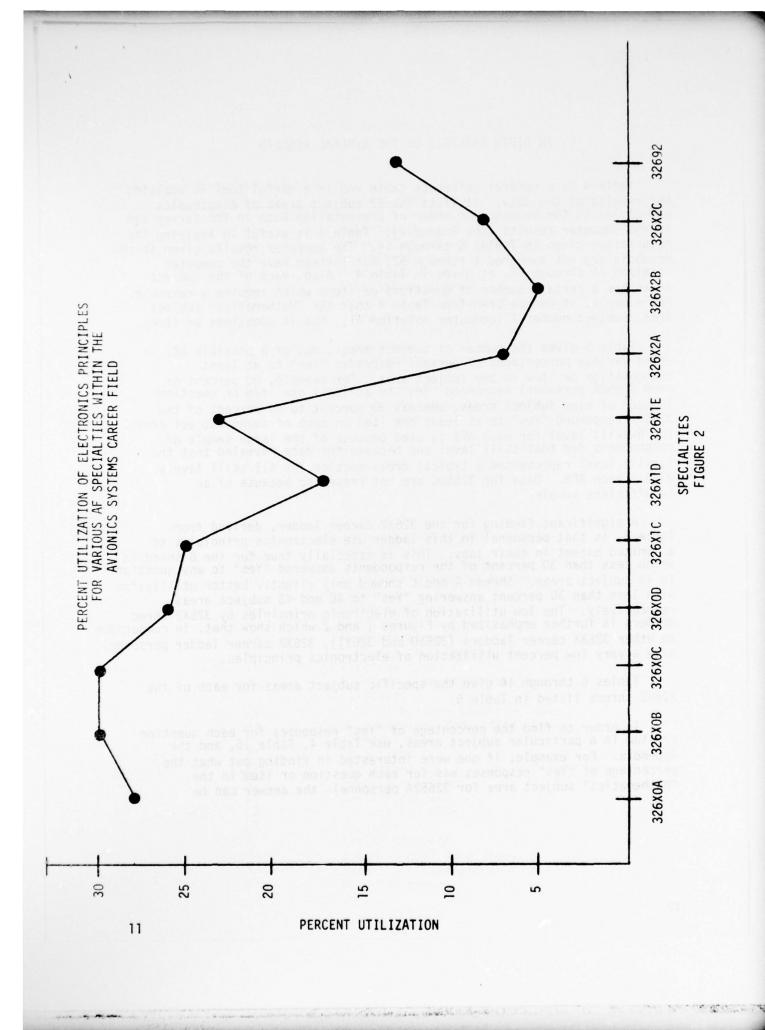
Figure 1 presents the overall results for the 326XX career ladders. Data for two other career ladders, 324XO (PMEL) and 316X1L (Missile Systems Maintenance), are also shown on Figure 1 for comparison purposes.

There are a total of 1,257 electronics principles questions or items in the survey. 326X2 career ladder personnel responded "Yes" to an average of 83 items or to seven percent of the total number of items. The seven percent is an average figure for all the shreds of 326X2. Figure 1 also shows that 326X1 personnel (all shreds averaged) responded "Yes" to an average of 255 electronics principles items or to 20 percent of the total number of items, while 326X0 personnel (all shreds averaged) responded "Yes" to an average of 352 items in the survey or to 28 percent of the total number of items.

These results, therefore, indicate a wide range of usage of electronics principles between 326X0, 326X1, and 326X2 career ladders. In addition, Figure 1, shows how the 326XX career ladders compare in field utilization of basic electronics principles with the two other career ladders, 324X0 and 316X1L. AFS 324X0 personnel responded "Yes" to an average of 401 items or to 32 percent of the total number of items, while 316X1L personnel responded "Yes" to an average of 58 items or to five percent of the total number of items.

Figure two shows the percent field utilization of electronics principles for all shreds of 326XX and for 32692 (Integrated Avionics Superintendent). As shown, 326X0B and 326X0C personnel have the highest utilization of electronics principles, while 326X2C personnel show the lowest utilization of electronics principles. It is interesting to note that 32692 personnel show a higher percent utilization of electronics principles than does any shred of 326X2.





IN DEPTH ANALYSIS OF THE GENERAL RESULTS

Table 4 is a general reference table and is a useful tool in applying the results of the data. It lists the 62 subject areas of electronics principles in the sequence or order of presentation both in the survey and in the computer results (the Appendix). Table 4 is useful in applying the information given in Tables 6 through 14. The computer results given in the Appendix are not numbered 1 through 62, but instead have the computer notation Al through U2, as given in Table 4. Also, each of the subject areas has a certain number of questions or items which require a response. For example, it can be seen from Table 4 that the "Mathematics" subject area, subject number 1 (computer notation Al), has 14 questions or items.

Table 5 gives the number of subject areas, out of a possible 62, in which various percentages of persons responded "Yes" to at least one question or item in any subject area. For example, 50 percent or more 32652A personnel responded "Yes" to at least one item or question in each of nine subject areas, whereas 30 percent to 49 percent of the 32652A responded "Yes" to at least one item in each of seven subject areas. The 5-skill level for each AFS is used because of the large sample of respondents for that skill level and because the data revealed that the 5-skill level represented a typical cross-section for all skill levels within each AFS. Data for 32650C are not presented because of an insufficient sample.

A significant finding for the 326X2 career ladder, derived from Table 5, is that personnel in this ladder use electronics principles to a limited extent in their jobs. This is especially true for the B shred in which less than 30 percent of the respondents answered "Yes" to any question in 48 subject areas. Shreds A and C showed only slightly better utilization with less than 30 percent answering "Yes" to 46 and 43 subject areas respectively. The low utilization of electronic principles by 326X2 shred members is further emphasized by Figures 1 and 2 which show that, in comparison to other 326XX career ladders (326X0 and 326X1), 326X2 career ladder personnel have a very low percent utilization of electronics principles.

Tables 6 through 14 give the specific subject areas for each of the 32652 shreds listed in Table 5.

In order to find the percentage of "Yes" responses for each question or item in a particular subject areas, use Table 4, Table 15, and the Appendix. For example, if one were interested in finding out what the percentage of "Yes" responses was for each question or item in the "Mathematics" subject area for 32652A personnel, the answer can be

determined by looking at Table 15 and seeing that 32652A is identified in the computer printout (the Appendix) as SPC044, a column heading in the Appendix. Table 4 indicates that "Mathematics" is the first subject area and has the computer printout (the Appendix) designation of Al. Thus, on page 4 of the Appendix, items 1 through 14 (designated as Al-Ol through Al-14) are read under the column designated as SPC044. It can be seen from page 4 that seven percent of the sample of 32652A indicated that they have to "Find the square root of a quantity" (item Al-04).

Large patterns of "Yes" responses can be immediately determined by scanning through the Appendix. For example, page 6 of the Appendix shows a high pattern of "Yes" responses for all groups (SPC038 through SPC045) for items 60 through 65 or computer notation B1-09 through B2-05; whereas, for items 75 through 87 (B3-09 through B3-21), the pattern of "Yes" responses is low for SPC038 through SPC045.

TABLE 4
Summary of EPI Subject Areas

Sequence of Subject Areas	Computer Printout Notation	Subject Area Title	Number of Possible Responses or Number of Items in each Subject Area
1 ASSA	AT THE SAID OF SE	Mathematics	14
	A2	Direct Current and Voltage	9
2	A3	Resistance	28
1	B1	Multimeter Uses	9
2 3 4 5	B2	Alternating Current	6
6	B3	Inductors and Inductive	25
7	C1-18 0013-1	Reactance Capacitors and Capacitive	
		Reactance	36
8	C2	Transformers	43
9	C3	Magnetism	14
10	D1	RCL Circuits	44
11	D2	Series and Parallel Resonance	
		(Time Constants)	10
12	D3	Filters	22
13	El	Coupling	12
14	E2	Soldering	22
15	E3	Relays	19
16	FI	Microphones	13
17	F2	Speakers	15
18	F3	Oscilloscopes	12
19	G1	Semiconductor Diodes	50
20	G2	Transistors	24
21	G3	Transistor Amplifiers	49
22	н1	Solid-State Special Purpose Devices	6
23	H2	Power Supplies	29
24	H3	Oscillators	27
25	11	Multivibrators	16
26	Ĭ2	Limiters and Clampers	10
27	13	Electron Tubes	44
28	ນ້ຳ	Electron Tube Amplifiers and	
00	10	Circuits	7
29 30	J2 J3	Special Purpose Electron Tubes Heterodyning, Modulation, and	16
		Demodulation	6
31	K1	AM Systems	28
32	K2	FM Systems	19
33	K3	Numbering Systems	10
34	L1	Logic Functions	13
35	L2	Boolean Equations	25
36	L3	Counters	24
37	M1	Timing Circuits	12
38	M2	Use of Signal Generators	10
39	M3	Motors and Generators	29
40	Nî	Meter Movements	10

TABLE 4 (CONTINUED)

41	N2	Saturable Reactors and Magnetic Amplifiers	16
42	N3	Waveshaping Circuits	11
43	01	Single Sideband Systems	30
44	02	Pulse Modulation Systems	39
45	03	Antennas	39
46	P1	Transmission Lines	31
47	P2	Waveguides and Cavity Resonators	50
48	P3	Microwave Amplifiers and	
		Oscillators	76
49	Q1	Registers	7
50	Q2	Storage Devices	9
51	Q3	Digital to Analog Converters	7 9 14
52	R1	Phantastrons	1
53	R2	Schmitt Triggers	3
54	R3	Cable Fabrication	2
55	\$1	Input/Output Devices	3 2 3
56	S2	Photo Sensitive Devices	i
57	\$3	Synchronous Vibrations (Chopper	
		Circuits)	9
58	TI	Infrared	27
59	T2	Lasers	34
60	T3	Display Tubes	14
61	Ul	Programming	21
62	U2	DB and Power Ratios	3

16

NUMBER OF SUBJECT AREAS, OUT OF A POSSIBLE 62, IN WHICH A SPECIFIED PERCENT OF PERSONS IN EACH AFSC (50% OR MORE, 30 TO 49%, OR 0 TO 29%) MARKED AT LEAST ONE "YES" RESPONSE. TABLE 5

	32650A	326508	32650D	326510	326510	32651E	32652A	32652B	32652C
+%09	36	39	34	30	20	33	6	ω	15
30-49%	7	9	9	14	16	6	7	9	4
0-29%	19	17	22	18	56	20	46	48	43

NINE SUBJECT AREAS WITH HIGH JOB UTILIZATION OF BASIC ELECTRONICS.
THAT IS, 50 PERCENT OR MORE OF THE SURVEY SAMPLE RESPONDED "YES" TO
ONE OR MORE QUESTIONS WITHIN EACH AREA.
32652A

DIRECT CURRENT AND VOLTAGE
MULTIMETER USES
ALTERNATING CURRENT
SOLDERING
RELAYS
HETERODYNING, MODULATION, AND DEMODULATION
METER MOVEMENTS
ANTENNAS
INPUT-OUTPUT DEVICES

TABLE 7

SEVEN SUBJECT AREAS WITH MODERATE JOB UTILIZATION OF BASIC ELECTRONICS. THAT IS, 30 TO 49 PERCENT OF THE SURVEY SAMPLE RESPONDED "YES" TO ONE OR MORE QUESTIONS WITHIN EACH AREA. 32652A

MATHEMATICS OSCILLOSCOPES POWER SUPPLIES MICROWAVE AMPLIFIERS AND OSCILLATORS CABLE FABRICATION DISPLAY FABRICATION PROGRAMMING

The state of the s

FORTY-SIX SUBJECT AREAS WITH LOW JOB UTILIZATION OF BASIC ELECTRONICS.
THAT IS, 29 PERCENT OR LESS OF THE SURVEY SAMPLE RESPONDED "YES" TO
ANY QUESTION WITHIN EACH AREA.
32652A

RESISTANCE INDUCTORS AND INDUCTIVE REACTANCE CAPACITORS AND CAPACITIVE REACTANCE TRANSFORMERS MAGNETISM RCL CIRCUITS SERIES AND PARALLEL RESONANCE (TIME CONSTANTS) FILTERS COUPLING MICROPHONES SPEAKERS SEMICONDUCTOR DIODES TRANSISTORS TRANSISTOR AMPLIFIERS SOLID-STATE SPECIAL PURPOSE DEVICES OSCILLATORS MULTIVIBRATORS LIMITERS AND CLAMPERS **ELECTRON TUBES** ELECTRON TUBE AMPLIFIERS AND CIRCUITS SPECIAL PURPOSE ELECTRON TUBES AM SYSTEMS FM SYSTEMS

NUMBERING SYSTEMS LOGIC FUNCTIONS BOOLEAN EQUATIONS COUNTERS TIMING CIRCUITS USE OF SIGNAL GENERATORS MOTORS AND GENERATORS SATURABLE REACTORS AND MAGNETIC **AMPLIFIERS** WAPESHAPING CIRCUITS SINGLE SIDEBAND SYSTEMS PULSE MODULATION SYSTEMS TRANSMISSION LINES WAVEGUIDES AND CAVITY RESONATORS REGISTERS STORAGE DEVICES DIGITAL TO ANALOG CONVERTERS **PHANTASTRONS** SCHMITT TRIGGERS PHOTO SENSITIVE DEVICES SYNCHRONOUS VIBRATIONS (CHOPPER CIRCUITS) INFRARED LASERS DB AND POWER RATIOS

TABLE 9

EIGHT SUBJECT AREAS WITH HIGH JOB UTILIZATION OF BASIC ELECTRONICS.
THAT IS, 50 PERCENT OR MORE OF THE SURVEY SAMPLE RESPONDED "YES" TO ONE OR MORE QUESTIONS WITHIN EACH AREA.

32652B

MATHEMATICS
DIRECT CURRENT AND VOLTAGE
MULTIMETER USES
CAPACITORS AND CAPACITIVE REACTANCE

MAGNETISM SOLDERING RELAYS METER MOVEMENTS

TABLE 10

SIX SUBJECT AREAS WITH MODERATE JOB UTILIZATION OF BASIC ELECTRONICS. THAT IS, 30 TO 49 PERCENT OF THE SURVEY SAMPLE RESPONDED "YES" TO ONE OR MORE QUESTIONS WITHIN EACH AREA. 32652B

PESISTANCE ALTERNATING CURRENT TRANSFORMERS SOLID-STATE SPECIAL PURPOSE
DEVICES
INDUCTORS AND INDUCTIVE REACTANCE
INPUT-OUTPUT DEVICES

FORTY-EIGHT SUBJECT AREAS WITH LOW JOB UTILIZATION OF BASIC ELECTRONICS. THAT IS, 39 PERCENT OR LESS OF THE SURVEY SAMPLE RESPONDED "YES" TO ANY QUESTION WITHIN EACH AREA.

32652B

INDUCTORS AND INDUCTIVE REACTANCE RCL CIRCUITS SERIES AND PARALLEL RESONANCE (TIME CONSTANTS) FILTERS COUPLING MICROPHONES SPEAKERS OSCILLOSCOPES SEMICONDUCTOR DIODES TRANSISTORS TRANSISTOR AMPLIFIERS POWER SUPPLIES OSCILLATORS MULTIVIBRATORS LIMITERS AND CLAMPERS
ELECTRON TUBES ELECTRON TUBE AMPLIFIERS AND CIRCUITS SPECIAL PURPOSE ELECTRON TUBES HETERODYNING, MODULATION, AND DEMODULATION AM SYSTEMS M SYSTEMS MUMBERING SYSTEMS LOGIC FUNCTIONS **OOLEAN EQUATONS** PROGRAMMING

COUNTERS TIMING CIRCUITS USE OF SIGNAL GENERATORS SATURABLE REACTORS AND MAGNETIC AMPLIFIERS WAVESHAPING CIRCUITS SINGLE SIDEBAND SYSTEMS PULSE MODULATION SYSTEMS ANTENNAS TRANSMISSION LINES WAVEGUIDES AND CAVITY RESONATORS MICROWAVE AMPLIFIERS AND OSCILLATORS REGISTERS STORAGE DEVICES DIGITAL TO ANALOG CONVERTERS **PHANTASTRONS** SCHMITT TRIGGERS CABLES FABRICATION PHOTO SENSITIVE DEVICES SYNCHRONOUS VIBRATIONS (CHOPPER CIRCUITS) **INFRARED** LASERS DISPLAY TUBES DB AND POWER RATIOS

TABLE 12

FIFTEEN SUBJECT AREAS WITH HIGH JOB UTILIZATION OF BASIC ELECTRONICS.
THAT IS, 50 PERCENT OR MORE OF THE SURVEY SAMPLE RESPONDED "YES" TO
ONE OR MORE QUESTIONS WITHIN EACH AREA.
362X2C

MATHEMATICS
EIRECT CURRENT AND VOLTAGE
MULTIMETER USES
ALTERNATING CURRENT
SOLDERING
MICROPHONES
HETERODYNING, MODULATION, AND DEMODULATION

AM SYSTEMS
METER MOVEMENTS
SINGLE SIDEBAND SYSTEMS
ANTENNAS
TRANSMISSION LINES
WAVEGUIDES AND CAVITY RESONATORS
CABLE FABRICATION
INFRARED

FOUR SUBJECT AREAS WITH MODERATE JOB UTILIZATION OF BASIC ELECTRONICS. THAT IS, 30 TO 49 PERCENT OF THE SURVEY SAMPLE RESPONDED "YES" TO ONE OR MORE QUESTIONS WITHIN EACH AREA. 326X2C

RESISTANCE RELAYS OSCILLOSCOPES
DB AND POWER RATIOS

TABLE 14

FORTY-THREE SUBJECT AREAS WITH LOW JOB UTILIZATION OF BASIC ELECTRONICS.
THAT IS, 29 PERCENT OR LESS OF THE SURVEY SAMPLE RESPONDED "YES" TO
ANY QUESTION WITHIN EACH AREA.
326X2C

INDUCTORS AND INDUCTIVE REACTANCE CAPACITORS AND CAPACITIVE REACTANCE TRANSFORMERS MAGNETISM RCL CIRCUITS SERIES AND PARALLEL RESONANCE (TIME CONSTANTS) **FILTERS** COUPLING **SPEAKERS** SEMICONDUCTOR DIODES TRANSISTORS TRANSISTOR AMPLIFIERS SOLID-STATE SPECIAL PURPOSE DEVICES POWER SUPPLIES OSCILLATORS MULTIVIBRATORS LIMITERS AND CLAMPERS ELECTRON TUBES ELECTRON TUBE AMPLIFIERS AND CIRCUITS FM SYSTEMS NUMBERING SYSTEMS **PROGRAMMING** SPECIAL PURPOSE ELECTRON TUBES

LOGIC FUNCTIONS BOOLEAN EQUATIONS COUNTERS TIMING CIRCUITS USE OF SIGNAL GENERATORS MOTORS AND GENERATORS SATURABLE REACTORS AND MAGNETIC AMPLIFIERS WAVESHAPING CIRCUITS PULSE MODULATION SYSTEMS MICROWAVE AMPLIFIERS AND **OSCILLATORS** REGISTERS STORAGE DEVICES DIGITAL TO ANALOG CONVERTERS **PHANTASTRONS** SCHMITT TRIGGERS INPUT-OUTPUT DEVICES PHOTO SENSITIVE DEVICES SYNCHRONOUS VIBRATIONS (CHOPPER CIRCUITS) **LASERS** DISPLAY TUBES

READING THE COMPUTER PRINTOUTS (GPSM3A, GPSM3B, AND JOBINV) WHICH ARE IN THE APPENDIX

GPSM3A (Appendix pages four through 46) is a summary which gives the percent of members of a group which responded "Yes" to the items in the survey booklet. At the top of each column of numbers on any page of GPSM3A are the following Group Identifiers and Groups:

```
SPC038 - All airmen with DAFSC 326X2 (All shreds) (53 members) SPC039 - All airmen with DAFSC 32632 (All shreds) (53 members) SPC040 - All airmen with DAFSC 32652 (All shreds) (309 members) SPC041 - All airmen with DAFSC 32672 (All shreds) (106 members) SPC042 - All airmen with DAFSC 326X2A (164 members) SPC043 - All airmen with DAFSC 32632A (21 members) SPC044 - All airmen with DAFSC 32652A (109 members) SPC045 - All airmen with DAFSC 32672A (34 members)
```

GPSM3B (Appendix pages 49 through 91) is a summary which gives the percent of members of a group which responded "Yes" to the items in the survey booklet. At the top of each column of numbers on any page of GPSM3B are the following Group Identifiers and Groups:

```
SPC046 - All airmen with DAFSC 326X2B (146 members)
SPC047 - All airmen with DAFSC 32632B (15 members)
SPC048 - All airmen with DAFSC 32652B (97 members)
SPC049 - All airmen with DAFSC 32672B (34 members)
SPC050 - All airmen with DAFSC 326X2C (155 members)
SPC051 - All airmen with DAFSC 32632C (16 members)
SPC052 - All airmen with DAFSC 32652C (103 members)
SPC053 - All airmen with DAFSC 32672C (36 members)
```

To conserve space, some of the items have been abbreviated in GPSM3A and GPSM3B in the Appendix. Each item has been listed in its entirety in the Job Inventory (JOBINV) beginning on page 92 of the Appendix. For example, Task A1-01, page 4, GPSM3A, is incomplete. In order to find the complete statement, turn to page 92 of the Appendix and read item A1-01.

APPENDIX

**		ASK TITLES!	JOB INVENTORYIDUTY/T	ANTBOF		
4 -	GRPS	FOR 326X2 DAFSC	PCT MERS ANSWERS TES FOR 326X2 DAFSC GRPS	6P5H3A	wn -	
PAGE			REPORT TITLE	HEPORT ID	NUMBER	
AF HUMAN RESOURCES LABORATORY	PAGE	700				TABLE OF CONTENTS
			APPENDIX			

REPORTS ON THE FOLLOWING GROUPS WENE REQUESTED

| CONTAINING |
|------------|------------|------------|------------|------------|------------|------------|------------|
| 1 S038HS | SAREDSI | SHREDSI | SHREDSI | | | | |
| 1111 | יזור | ואור | 171 | | | | |
| 2 × 9 Z | 12632 | 12652 | 12672 | 126×24 | 32632A | 12652A | 12672A |
| | | | | | NE | | |
| ALL | 466 | ALL | ALL | ALL | ALL | ALL | ALL |
| SPC038 | SPC039 | SPC040 | SPC041 | SPC042 | SP.043 | 5PC044 | SPC045 |
| | • | • | | • | • | • | • |
| TIDENTITY | DENTITY | DENTITY | DENTITY | DENTITY | DENTITY | DENTITY | IDENTITY |
| | | | | | | | GROUP |

168 NENBERS.
53 NENBERS.
100 NENBERS.
164 NENBERS.
124 NENBERS.
124 NENBERS.

TASK GROUP SUMMARY PERCENT MEMBERS PERFORMING A 1 A1-01 DO YOU USE AN INSTRUMENT, SUCH AS METER OR AN OSCILLOSCOPE, IN WHICH IT IS NECESSARY TO AMPLIFY OR A 2 A1-02 DO YOU USE AND BOLVE FOR AN A TECHNICAL ORDER OR MAINTERNANCE RAND SOLVE FOR AN ELESSARY A 3 A1-03 DO YOU FIRM THE SQUARE ROOT OF A QUANTITY. A 5 A1-04 DO YOU FIND THE SQUARE ROOT OF A QUANTITY. A 5 A1-05 DO YOU SELVE FOR AN UNKNOWN QUANTITY. A 5 A1-05 DO YOU USE LOGARITHMY TREE OF A 7 A1-07 DO YOU USE LOGARITHMY TREE OF CALCULATIONS. A 7 A1-07 DO YOU USE LOGARITHMY TREE OF A 8 A1-08 DO YOU USE THE MAINTES, SUCH AS ADDING OR SUBTRACTING THE WITH TRISONOWETRIC FUNCTIONS SUCH AS A 11 A1-11 DO YOU WOR MITH TRISONOWETRIC FUNCTIONS SUCH AS SINE. COSINE, OR TANGENT. A 12 A1-12 DO YOU WOR MITH TRISONOWETRIC FUNCTIONS SUCH AS SINE. COSINE, OR TANGENT. A 12 A1-12 DO YOU USE TRRANDE ENERS OF PLANE FIGURES, SUCH AS SINE. COSINE, OR TANGENT. A 12 A1-12 DO YOU USE TRRANDE LESS.		w 0	HATHEMATICS
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SAI-05 DO YOU SOLVE FOR AN UNKNOWN QUANTITY. A 1-06 DO YOU SOLVE FOR AN UNKNOWN QUANTITY. A 1-06 DO YOU USE LOGARITHM TABLES IN ANY TYPE OF CALCULATIONS. B AI-08 DO YOU USE THE WATURAL SYSTEM OF LOGARITHMS (THIS IS THE LOGARITHM SYSTEM WHICH USES THE NUMBER 2.718 AS IS THE LOGARITHM SYSTEM WHICH USES THE NUMBER 2.718 AS IO AI-10 DO YOU WORK WITH VECTOR QUANTITIES, SUCH AS ADDING 6 4 5 11 11 AI-11 DO YOU WORK WITH TRISONOWERRIC FUNCTIONS SUCH AS SINE, COSINE, OR TANGENT. A AREAS OF CIRCLES ON TRIANGLES, A AREAS OF CIRCLES ON TRIANGLES.			
6 A1-06 DO YOU CONVERT NUMBERS TO LOGARITHMS. 7 A1-07 DO YOU USE LOGARITHM TABLES IN ANY TYPE OF CALCULATIONS. 8 A1-08 DO YOU USE THE UADDRATIC EQUATIONS. 9 A1-09 DO YOU USE THE NATURAL SYSTEM OF LOGARITHMS (THIS I 2 I I I IS THE LOGARITHM SYSTEM WHICH USES THE NUMBER 2.718 AS IS THE LOGARITHM SYSTEM WHICH USES THE NUMBER 2.718 AS ID A1-10 DO YOU WORK WITH VECTOR JUANTITIES, SUCH AS ADDING 6 4 5 II I A1-11 DO YOU WORK WITH TRIGONOWETRIC FUNCTIONS SUCH AS SINE. COSINE. OR TANGENT. 1 A1-12 DO YOU USTERMINE AFEAS OF PLANE FIGURES, SUCH AS AREAS OF CIRCLES ON TRIANGLES.			
7 A1-07 DO YOU USE LOGARITHM TABLES IN ANY TYPE OF 3 4 3 1 CALCULATIONS. 8 A1-08 DO YOU USE THE MADDRATIC EQUATIONS. 9 A1-09 DO YOU USE THE NATURAL SYSTEM OF LOGARITHMS (THIS 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			
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AREAS OF CIRCLES ON TRIANCLES.			
YOU SOLVE OR USE SIMULTANEOUS EQUATIONS. 3 4 3 4			
AI-14 DO YOU SOLVE OR USE PROPARTIONS.			
2		13 26	
A2-03 DO YOU USE THE TERM OMN.		79 79	DIRECT CURRENT
A2-04 DO YOU USE THE TERM 10M.		0 5	
TOU USE THE TERM DANE.			
AZ-00 UNC TIN TENN MELLEN.			
A2-08 DO YOU USE THE TERM COULDING.		•	
YOU USE THE TERM PROTON.	1		
AD-01 DO TOU WORK MITH RESISTORS IN TOUR PRESENT JOB. 26 28 23 32		51 11	
	o :	•	
13 04 00 YOU AN UNIT USE OF THE PARTY OF THE		-	
33-05 50 700 CARCK CHAIL VALUE OF RESISTORS.		12 15	RESISTANCE
A3-36 DO TOU REMOVE OR REPLACE RESISTORS.		•	
DO YOU USE OR REFER TO TEMPERATURE COEFFICIENTS . 2 3 8		• 0	
FOR RESISTORS ON ANY TASKS IN TOUR PRESENT JOB.			
A 31 A3-08 OF OUR OFFICER TO RESISTOR STRUCKS, SUCH AS 2. 21 TO 30 11 FOR FIRED RESISTORS OF FOR TAPPED RESISTORS.	-	7	
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WORK WITH AS CARBON, FIXED WIRE, SLIDE TAP, RHEOSTAT OR		•	

EXAMPLE OF A LOW UTILIZATION AREA AF HUMAN RESOURCES LABORATORY AIR FORCE SYSTEMS COMMAND EXAMPLE OF A HIGH UTILIZATION AREA INDUCTORS AND
INDUCTIVE REACTANCE ALTERNATING CURRENT 38 0 200 0 -GPSHJA PAGE SPC 041 31 الد يد YOU USE OR REFER THE TERM PEAK TO PEAK VOLTAGE.
YOU USE OR REFER THE TERM MAYE LENGTH.
YOU USE OR REFER THE TERM MAYE LENGTH.
YOU USE OR REFER THE TERM FREQUENCY.
TOU USE OR REFER THE TERM INSTANTANEOUS VALUE.
YOU USE OR REFER THE TERM INSTANTANEOUS VALUE. 78 B3-12 DO YOU USE OR REFER TO THE GENERAL RULE THAT INDUCTANCE IS PROPORTIONAL TO THE SQUARE OF THE 19 B3-13 DO YOU USE ON REFER TO THE GENERAL RULE THAT THE INDUCTANCE OF A COLL IS DIRECTLY PROPORTIONAL TO THE 80 B3-14 DO YOU USE OR REFER TO THE GENERAL RULE THAT THE 1 NOUTANCE OF A COLL IS INVERSELY PROPORTIONAL TO THE INDUCTANCE OF A COLL IS DIRECTLY PROPORTIONAL TO THE INDUCTANCE OF A COLL IS DIRECTLY PROPORTIONAL TO THE RAB B3-16 DO YOU CALCULATE INDUCTANCE FOR A PREFER TO THE GENERAL RULE THAT THE REFER TO MENBLES.
REFER TO 1-COPCTIVE REACTANCE.
REFER TO COPPER LOSS IN IMBUCTORS.
REFER TO HYSTERESIS LOSS IN DO YOU DIRECTLY USE A QUANTITY OF CHARGE CALLED 60 BI-09 DO YOU READ SCHEMATICS. INDUCTORS IN PARALLEL.

65 83-19 DO YOU CALCULATE THE TOTAL INDUCTANCE FOR
INDUCTORS IN SERIES-PRAILEL (IPCUITS86 83-20 DO YOU USE OR REFER TO THE GENERAL RULE THAT
CURRENT LAGS VOLTAGE IN AC INDUCTOR CIRCUITS87 83-21 DO YOU CALCULATE INDUCTI-E REACTANCE-B3-11 DO TOU USE OR REFER TO ELOT CURRENT LOSS IN 83 83-17 DO YOU CALCULATE THE TOTAL INDUCTANCE FOR THOUCTORS IN SERIES.
84 83-18 DO YOU CALCULATE THE TOTAL INDUCTANCE FOR OR REPLACE INDUCTORS. TO INDUCTANCE. PCT MBRS ANSWRNG YES FOR 326X2 DAFSC GAPS CLEAN INDUCTORS. REFER INDUCTOR USING FORMULAS. TASK GROUP SUMMARY PERCENT MEMBERS PERFORMING ADJUST REMOVE OSE 350 DO YOU USE 700 NOUCTORS. INDUCTORS. INDUCTORS. 93-10 59

AF HUMAN RESOURCES LABORATORY

PCT MBRS ANSWRNE YES FOR 326x2 DAFSC GRPS

TASK GROUP SUMMARY PERCENT MEMBERS PERFORMING

GPSH3A PAGE

TASK GROUP SUMMARY PERCENT MEMBERS PERFORMING									
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YOU USE OR REFER TO THE GENERAL RULE THA	*	0	7	•	~	0	~	•	
CAPACITIVE REACTANCE I		•		٠		1			
CI-ZY DO TOU CALCULATE CAP	*			•	- :	Э,		0	
121 CI-30 DO TOU WORK WITH	•	•	•	7	•	s	-	•	
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C1-32 30 YOU MORE WITH		, ,	-	. •	, ,	0 0	-		
24 C1-33 DO YOU WORK WITH	•		: -			•	. ~		
DO 700 #08K #17H	•	~	. 7	•	•	0	~	: ~	
126 C1-35 DO YOU WORK WITH	7	۰	7		s	s	-	13	
127 C1-36 DO YOU WORK ITH	-30	Ξ	•	•	*	•	s	•	
CAPACITORS.									
128 CZ-01 DO YOU	8	•	6 0	52	2	0	0	42	
C4-02 DO 100	1.2	7	=	9	•	2	٠	9 -	
130 CZ-03 DO YOU CLEAN TAAR	,	7	*	•	7	3	•	•	
131 CZ-04 DO YOU ADJUST TH	•	0	•	~	~	o	7	٦	TRANSFORMFRS
134 CK-US DO TOU TROUBLESHO	•	.	- 1	52	-	0	= '	5.	
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136 CZ-09 DO YOU USE THE S	٥	0	0	0	-	9	-	0	
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USING CURRENT OR VOLT		,		•				1	
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TRANSFORMERS.									
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100 YOU WORK #17H	*	•	13	22	10	0	•	7.	
143 C2-16 DG TOU WORK . ITH AUDIO	•	0	~	1	~	0	-	•	
144 CZ-17 DO TOU MORK WITH RADIO FREGUENCY TRAN	•	0	2	^	•	3	-	1.2	
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BY NEASURING RESISTANCE.						,			
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MATERIALS. C 174 C3-04 DO YOU USE OR REFER TO RELUCTANCE OF MAGNETIC MATERIALS.	173 C3-03 DO YOU USE OR REFER TO RETENTIVE	172 C3-02 DO YOU USE OR REFER TO TEMPORARY	=======================================	BABYS SHOW	TRANSFORMER.	169 C2-42 DO YOU	168 CZ-41 DO YOU	167 C2-40 DO YOU ADJUST 3	166 CZ-34 DO YOU	165 C2-38 DO YOU INSPECT	164 6	163 C	162 6	161 CZ-34 DO YOU	TURNS RATIO OF A TRANSFORMER IS EQUAL TO THE	1 60 C	159 C2-32 DO YOU DETERMINE		SCHEMATIC SYMBOLS FOR TRANSFORMERS.	TOR TRANSFORMERS.	156 6	155 0	154 0	IS CA-24 DO TOU REFER TO THE MULTIPLE TAP SCHEMATIC STMBOLS FOR TRANSFORMERS.		STANDIS FOR TRANSFOR	DETERMINE MI	DY=15K
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	MAGNETISM																											

AF HUNAN RESOURCES LABORATORY AIR FORCE SYSTEMS COMMAND RCL CIRCUITS 200 200 240 3 * 2 -245 GPSH3A PAGE 240 200 200 5PC 038 RCL CIRCUITS. D 189 D1-05 DO YOU USE OR REFER TO COSINE BHEN WORKING WITH RCL MORKING MITH RCL CIRCUITS. 01-14 DO TOU USE OR REFER TO BLADMIDTH WHEN MORKING MITH C3-10 DO YOU USE OR REFER TO MAGNETIC INDUCTION.
C3-11 DO YOU USE OR REFER TO FLUX DENSITY.
C3-12 DO YOU USE OR REFER TO THE GENERAL RULE THAT FOR MAGNETIC POLES, LIKE POLES REFER AND UNLIKE POLES.
C3-13 DO YOU USE THE LEFT HAND THUMB RULE TO FIND THE D 186 D1-02 DO YOU USE OR REFER TO VECTORS WHEN WORKING WITH RCL CIRCUITS.
D 187 D1-03 DO YOU USE OR REFER TO PYTHAGOREAN THEOREM WHEN WORKING WITH RCL CIRCUITS.

DIFF DISTORMENT WORLD USE OR REFER TO AVERAGE POWER (PAVE) WHEN WORKING WITH RCL CIRCUITS.

DIFF DISTORMENT WORLD OF OR REFER TO APPARENT POWER (PA) WHEN DISTORMENT WORKING WITH RCL CIRCUITS. D 190 DI-U6 DO YOU USE OR REFER TO TANGENT WHEN WORKING AITH D 185 DI-01 DO YOU WORK WITH RC. LR. OP RCL CIRCUITS ON TOJI RCL CIRCUITS. 01-15 DO TOU USE OR REFER TO SELECTIVITY WHEN WORKING DO YOU USE OR REFER TO PERMEABILITY OF MAGNETIC REFER TO RESIDUAL MAGNETISM.
REFER TO MAGNETIC LINES OF FORCE RCL CIRCUITS. D 191 D1-07 DO YOU USE OR REFER TO MATTS WHEN WORKING WITH WORKING WITH RCL CIRCUITS. 01-09 DG YOU USE OR REFER TO MAKINUM POWER (PM) WHEN MORKING MITH RCL CIRCUITS.
D 188 DI-UN DO YOU USE OR REFER TO SINE MMEN MORKING MITH MONTING WITH RCL CIRCUITS. DI=13 DO TOU USE OR REFER TO RESONANT CIRCUITS WHEN DIRECTION OF MAGNETIC FIELDS ABOUT STRAIGHT WIRES. RCL CIRCUITS. DI-08 DO YOU USE OR REFER TO TRUE POWER (PT) WHEN REFER TO THE DOMAIN THEORY OF C3-14 DO TOU USE THE LEFT THUMB RULE TO FIND THE OR FLUX.
C 178 C3-08 DO TOU USE OR REFER TO WEBER'S THEORY OF PCT MBRS ANSWRNG YES FOR 326x2 DAFSC GRPS DY-15K TASK GROUP SUMMARY PERCENT NEMBERS PERFORMING 0 0 80 WITH RCL CIRCUITS. C3-06 DO YOU USE 350 00 40-EJ 108. MAGNETISM. MAGNET I SM. CIRCUITS. PRESENT C3-05 C 183 0 145 861 0 6 175 C 180 0 147 C 179 181 7 0 193 0 100

CT MBRS ANSWRNG YES FOR 32622 DAFSC GRPS TASK GROUP SUMMARY PERCENT MEMBERS PERFORMING	ş	4	SPC S	, ,	_	-			AIR FORCE SYSTEMS COMMAND
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YOU USE OR REFER TO	_	~	0	u	~	_			
TOU USE OR REFER TO CIRCUIT & WHEN WI	_		_	2	_				
YOU USE OR REFER TO TANK CIRCUITS W	-	~	_	_		L.			
YOU DETERMINE VALUES OF TRIGONOME.	_	0	_	N	N			~	
USING FORMULAS: SINE OF AN ANGLE - OPPOSITE SIDE	_		_	0	2				0
VECTOR DIAGRAMS FOR CIRCUITS.	_	2	_	_	_	ur.			0
4661	c	0	_		_				0
TS. CE FOR S	0	0	_		_				c
210 DI-26 DO YOU CALCULATE IMPEDANCE ANGLES FOR SERIES RCL	0	0	_		_				c
211 DI-27 DO YOU CALCULATE APPARENT POWER (PA) FOR SERIES	0	0	0	_	_	0			0
001	0	0			_	0			0
213 DI-29 DO YOU CALCULATE POWER FACTORS (PF) FOR SERIES	0	0	0	_	_	0			0
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216 DI-32 DO YOU CALCULATE TOTAL IMPEDANCE FOR PARALLEL NCL	0	0	_		_				0
TOTAL	0	0			_				0
01-34 DO YOU DE-10		~	u u			.			
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DI-37 DO YOU CHECK INDUCTORS USING SUBST	0	0	- 1		_,				•
DO YOU USE OR REFER TO	0	0		0	0	_		Ĭ	•
223 DI-39 DO TOU CALCULATE RESONANT FREQUENCIES FOR ACL	0	0	_	0	_				o
224 DI-40 DO YOU USE OR REFER TO THE GENERAL RULE THAT	-	2	_	_	_	5			c

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245 E-02 DO TOU CLEAR VIETES. 246 E-03 DO TOU CLEAR VIETES. 257 E-03 DO TOU CLEAR VIETES. 258 E-11 DO TOU LILE OF REALER STATES USING FRASERS. 258 E-12 DO TOU CLEAR VIETES. 258 E-13 DO TOU CLEAR VIETES. 258 E-13 DO TOU CLEAR VIETES. 259 E-13 DO TOU CLEAR VIETES. 250 E-13 DO TOU CLEAR VIETS. 250	281 E-03 00 00 U GENO READER SIAPE SOR LEADS. 281 E-03 00 00 U GENO READER SIAPE SOR LEADS. 282 E-10 00 00 U FILE OF SLAPE SOLGERING IRON 17PS. 283 E-11 00 00 U GENO READER SOLGERING IRON 17PS. 283 E-12 00 00 U GENO READER SOLGERING IRON 17PS. 284 E-12 00 00 U GENO READER SOLGERING IRON 17PS. 285 E-12 00 00 U GENO READER SOLGERING IRON 17PS. 286 E-13 00 00 U GENO READER SOLGERING IRON 17PS. 286 E-13 00 00 U GENO READER SOLGERING IRON 17PS. 287 E-13 00 00 U GENO READER SOLGERING IRON 17PS. 288 E-14 00 00 U DESCRICE CONNECTIONS. 288 E-15 00 00 U DESCRICE CONNECTIONS. 289 E-15 00 00 U DESCRICE CONNECTIONS. 280 E-15 00 00 U DESCR		DO TOU CONNECT OR	7	36	32	37	25	50	52	54	
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285 E2210 DO YOU CLEAN SOLDERING HOLD 1785. 286 E2211 DO YOU CLEAN SOLDERING HOLD 1785. 286 E2212 DO YOU CLEAN SOLDERING HOLD 1785. 286 E2213 DO YOU CLEAN SOLDERING HOLD 1785. 286 E2213 DO YOU CLEAN SOLDERING HOLD 1785. 286 E2213 DO YOU CLEAN SOLDERING TOWN CTIONS. 286 E2213 DO YOU DESOLDER CONNECTIONS BY WITHOUT TOWN CONDOMENTS. 286 E2213 DO YOU DESOLDER CONNECTIONS BY WITHOUT TOWN CONDOMENTS. 286 E2213 DO YOU WARE PARKETS CONNECTIONS. 287 E222 DO YOU WARE PARKETS CONNECTIONS. 288 E2213 DO YOU WARE PARKETS CHOULD HORD CONNECTIONS. 289 E2213 DO YOU WARE PARKETS CHOULD HORD CONNECTIONS. 289 E2213 DO YOU WARE PARKETS CHOULD HORD CONNECTIONS. 289 E2213 DO YOU WARE PARKETS CHOULD HORD CONNECTIONS. 289 E222 DO YOU WARE PARKETS CHOULD HORD CONNECTIONS. 289 E222 DO YOU WARE PARKETS CHOULD HORD CONNECTIONS. 289 E222 DO YOU WARE PARKETS CHOULD HORD CONNECTIONS. 289 E222 DO YOU WARE PARKETS CHOULD HORD CONNECTIONS. 289 E222 DO YOU WARE PARKETS CHOULD HORD CONNECTIONS. 289 E222 DO YOU WARE PARKETS CHOULD HORD CONNECTIONS. 289 E222 DO YOU WARE PARKETS CHOULD HORD CONNECTIONS. 289 E222 DO YOU WARE PARKETS CHOULD HORD CONNECTIONS. 289 E222 DO YOU WARE PARKETS CHOULD HORD CONNECTIONS. 289 E222 DO YOU WARE PARKETS CHOULD HORD CONNECTIONS. 289 E222 DO YOU WARE PARKETS CHOULD HORD CONNECTIONS. 289 E222 DO YOU WARE PARKETS CONNECTIONS. 289 E222 DO YOU WARE PARKETS CONNECTIONS. 289 E222 DO YOU WARE PARKETS ON PRELATS. 289 E222 DO YOU WARE PARKETS ON PRELATS. 289 E222 DO YOU WARE PARKETS ON PRELATS. 289 E222 DO YOU WARE PARKETS ON PRELATE PARKETS. 289 E222 DO YOU WARE PARKETS ON PRELATE PARKETS. 289 E222 DO YOU WARE PARKETS ON PRELATE PARKETS. 289 E222 DO YOU WARE PARKETS ON PRELATE PARKETS. 289 E222 DO YOU WARE PARKETS ON PRELATE PARKETS. 289 E222 DO YOU WARE PARKETS ON PRELATE PARKETS. 289 E222 DO YOU WARE PARKETS ON PRELATE PARKETS. 289 E222 DO YOU WARE PARKETS ON PRELATE PARKETS. 289 E222 DO YOU WARE PARKETS.	284 E2-11 DO YOU CLEAN SOLDERING HOLD 1785. 284 E2-12 DO YOU CLEAN SOLDERING HOLD 1785. 284 E2-12 DO YOU CLEAN SOLDERING HOLD 1785. 285 E2-13 DO YOU CLEAN SOLDERING HOLD 1785. 286 E2-13 DO YOU CLEAN SOLDERING HOLD 1785. 286 E2-13 DO YOU CLEAN SOLDER HOLD 188. 287 E2-15 DO YOU DESOLDER CONNECTIONS. 288 E2-15 DO YOU DESOLDER CONNECTIONS. 288 E2-15 DO YOU CLEAN SOLDER HOLD 188. 289 E2-15 DO YOU CLEAN SOLDER HOLD 188. 280 E2-15 DO YOU CLEAN HER HOLD HOLD 188. 280 E2-15 DO YOU CLEAN HER HOLD HOLD 188. 281 E2-15 DO YOU WARE HARD-188 CONNECTIONS. 282 E2-21 DO YOU MAKE HARD-188 CONNECTIONS. 284 E2-22 DO YOU MAKE HARD-188 CONNECTIONS. 285 E2-21 DO YOU MAKE HARD-188 CONNECTIONS. 286 E2-21 DO YOU MAKE HARD-188 CONNECTIONS. 287 E2-22 DO YOU MAKE HARD-188 CONNECTIONS. 288 E2-21 DO YOU MAKE HARD-188 CONNECTIONS. 288 E2-21 DO YOU MAKE HARD-188 CONNECTIONS. 289 E2-22 DO YOU MAKE HARD-188 CONNECTIONS. 289 E2-21 DO YOU WERSON HILLY CONTECTIONS. 280 E2-22		DO TOU FILE OR SHAPE SOLDERING IRON	4.7	36	4	5.5	*	•	33	*	
248 EZ-11 DO YOU CLEAN ELECTRICAL SURRACES S. 25 54 55 64 55	289 E2-12 DO YOU CLEAN SCLOERERS (SING ENSERS). 289 E2-12 DO YOU CLEAN SCLOERER (SING ENSERS). 280 E2-12 DO YOU CLEAN SCLOERER (SING ENSING ENSERS). 280 E2-13 DO YOU CLEAN SCLOERER (SOUNECTIONS). 280 E2-14 DO YOU INSPECT SCLOERER (SOUNECTIONS). 280 E2-15 DO YOU CLEAN SCLOERER (SOUNECTIONS). 280 E2-15 DO YOU CROSCLES		DO YOU TIN SOLDERING IND	28	11	0	0.0	-	54	-	20	
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245 EZ-15 DO TOU INSPECT SCLUEBED CONNECTIONS. 287 EZ-15 DO TOU DESOLOGY CONNECTIONS. 287 EZ-15 DO TOU DESOLOGY CONNECTIONS USING VACUUM. 288 EZ-11 DO TOU DESOLOGY CONNECTIONS USING VACUUM. 288 EZ-15 DO TOU DESOLOGY CONNECTIONS USING VACUUM. 289 EZ-15 DO TOU CUT CONNECTION USING VACUUM. 280 EZ-15 DO TOU CUT CONNECTION USING VACUUM. 289 EZ-15 DO TOU CUT CONNECTION USING VACUUM. 280 EZ	286 E2-13 00 VOU DESCUER CONNECTIONS. 287 E2-15 00 VOU DESCUER CONNECTIONS BY MICKING. 287 E2-15 00 VOU DESCUER CONNECTIONS BY MICKING. 288 E2-19 00 VOU DESCUER CONNECTIONS BY MICKING. 289 E2-19 00 VOU DESCUER CONNECTIONS BY MICKING. 289 E2-19 00 VOU DESCUER CONNECTIONS BY MICKING. 289 E2-19 00 VOU MAKE MATCHIE CONNECTIONS. 289 E2-19 00 VOU MAKE MATCHIE CONNECTIONS. 289 E2-10 00 VOU MAKE MATCHIE CONNECTIONS. 289 E2-20 00 VOU MAKE MATCHIE CONNECTIONS. 289 E2-21 00 VOU MAKE MATCHIE CONNECTIONS. 280 E2-21 00 VOU MAKEMATCHIE VOU WATCHIE CONNECTION		OD TOU CLEAN ELECTRICAL	77	~	•	35	9	s	5	35	
286 EZ-19 DO 700 DESOLOGRE CONNECTIONS:	286 EZ-15 DO TOU DESOLOGE CONNECTIONS: 286 EZ-15 DO TOU DESOLOGE CONNECTIONS: 287 EZ-15 DO TOU DESOLOGE CONNECTIONS USING VACUUM: 289 EZ-15 DO TOU DESOLOGE CONNECTIONS USING VACUUM: 289 EZ-17 DO TOU CROUN-COMPONENT LENDS TO REMOVE COMPONENTS: 280 EZ-15 DO TOU CROUN-COMPONENT LENDS TO REMOVE. 280 EZ-15 DO TOU WAKE HANDEN LENDS TO REMOVE. 280 EZ-1		3 00 YOU TIN OR PRE-TIN C	5	1	2	99	35	•	35	*1	
289 E2-15 DO TOU DESOLDER CONNECTIONS BY WICKING. 289 E2-16 DO TOU DESOLDER CONNECTIONS BY WICKING. 289 E2-16 DO TOU DESOLDER CONNECTIONS USING VACUUM. 289 E2-16 DO TOU DESOLDER CONNECTIONS 289 E2-16 DO TOU CONDONENTS FOR MEMORAL. 289 E2-17 DO TOU CONDONENTS FOR MEMORAL. 289 E2-18 DO TOU CONDONENTS FOR MEMORAL. 289 E2-19 DO TOU CONDONENTS FOR MEMORAL. 280	### ### ### ### ### ### ### ### ### ##		4 DO YOU INSPECT SOLDERED	99	21	72	* 0	25	38	54	53	
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306 E3-12 DO TOU PERFORM TASKS ON RELAY APMATURES 307 E3-13 DO TOU PERFORM TASKS ON RELAY APMATURES 308 E3-14 DO TOU USE OR PEFER TO SINGLE POLE, SINGLE THROW 36 32 36 48 30 24 37 59571, NORMALLY OFFR (NO) SCHEMATIC SYMBOLS FOR PELAYS 307 E3-15 DO TOU USE OR REFER TO SINGLE POLE, SINGLE THROW 58571, NORMALLY CLOSED (NC) SCHEMATIC SYMBOLS FOR RELAYS 310 E3-16 DO USE OR REFER TO SINGLE POLE, DOUBLE THROW 5871 SCHEMATIC SYMBOLS FOR REFAYS	306 E3-12 DO TOU PERFORM TASKS ON RELAY ARMATURES 308 E3-19 DO TOU PERFORM TASKS ON RELAY SPRIMES 307 E3-13 DO TOU PERFORM TASKS ON RELAY SPRIMES 308 E3-19 DO TOU PERFORM TASKS ON RELAY SPRIMES 308 E3-19 DO TOU USE OR REFER TO SINGLE POLE, SINGLE THROW 309 E3-19 DO TOU USE OR REFER TO SINGLE POLE, SINGLE THROW 310 E3-15 DO TOU USE OR REFER TO SINGLE POLE, DOUBLE THROW 310 E3-16 DO TOU USE OR REFER TO SINGLE POLE, DOUBLE THROW 310 E3-16 DO TOU USE OR REFER TO SINGLE POLE, DOUBLE THROW 310 E3-16 DO TOU USE OR REFER TO SINGLE POLE, DOUBLE THROW 310 E3-17 DO TOU USE OR REFER TO DOUBLE POLE, DOUBLE THROW 310 E3-17 DO TOU USE OR REFER TO DOUBLE POLE, DOUBLE THROW 310 E3-17 DO TOU USE OR REFER TO DOUBLE POLE, DOUBLE THROW	30	DO YOU PERFORM TASKS ON HELAY		, 4	, –	, –	. 7			, ~	
307 E3-13 50 YOU PERFORM TASKS ON WELAY SPRINGS 308 E3-14 50 YOU USE OR PEFER TO SINGLE POLE, SINGLE THROW 36 32 36 48 38 24 37 508 E3-14 50 YOU USE OR PEFER TO SINGLE POLE, SINGLE THROW 36 32 36 48 38 24 37 309 E3-15 50 TOU USE OR PEFER TO SINGLE POLE, SINGLE THROW 34 35 51 37 24 35 310 E3-16 50 USE OR REFER TO SINGLE POLE, SOUBLE THROW 38 32 35 47 38 24 38 51 51-16 50 USE OR REFER TO SINGLE POLE, SOUBLE THROW 32 36 37 38 24 38	307 E3-13 DO YOU PERFORM TASKS ON RELAY SPRINGS 308 E3-14 DO YOU USE OR REFER TO SINGLE POLE, SINGLE THROW (SPST), NORMALLY CHOPER (AD) SCHEMATIC SYMBOLS FOR RELAYS 308 E3-14 DO YOU USE OR REFER TO SINGLE POLE, SINGLE THROW 108 E3-15 DO YOU USE OR REFER TO SINGLE POLE, DOUBLE THROW 110 E3-16 DO YOU USE OR REFER TO SINGLE POLE, DOUBLE THROW 12	30,	DO TOU PERSONN TASKS ON RELAN		~		. 0	٠ -			0	
308 E3-19 DO TOU USE OR REFER TO SINGLE POLE, SINGLE THROW 38 32 36 98 38 24 37 (SPST), NORMALLY OPER (40) SCHEMATIC SYMBOLS FOR PELAYS 309 E3-19 DO TOU USE OR REFER TO SINGLE POLE, SINGLE THROW 34 35 51 37 24 35 310 70 USE OR REFER TO SINGLE POLE, SUBBLE THROW 38 32 35 47 38 24 38 310 507 USE OR REFER TO SINGLE POLE, SOUBLE THROW 38 32 35 47 38 24 38 (SPST) SCHEMATIC SYMBOLS FOR REFARS	308 E3-19 DO 700 USE OR PEFER TO STRILE POLE, STUGLE THROW 36 32 36 48 38 24 37 36 (SPST), MORMALLY OPER (NO) SCHEMATIC SYMBOLS FOR PELAYS 39 34 35 51 37 24 35 30 E3-15 DO 700 USE OR REFER TO STRILE POLE, STRILE THROW 39 34 35 51 37 24 35 310 E3-16 DO 700 USE OR REFER TO STRILE POLE, DOUBLE THROW 37 30 35 47 38 24 36 34 36	30	DO YOU PERFORM TASKS ON HELA!	, -	~	, –		. ~		. 7		
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309 E3-15 50 TOU USE OR REFER TO SINGLE POLE, SINGLE THOM 34 34 35 51 37 24 35 (SPST), NORMALL CLOSED NCI SCHEMATIC SYMBOLS FOR PELAYS 310 E3-16 50 TOU USE OR REFER TO SINGLE POLE, DOUBLE THROW 34 32 35 47 38 24 38 (SPDT) SCHEMATIC SYMBOLS FOR REIAYS	309 E3-15 00 TOU USE OR REFER TO STRILE POLE, STRILE THOM SY 34 35 51 37 24 35 510 00 00 00 00 00 00 00 00 00 00 00 00 0		T. MORALLY OPEN (AG)	;	:	2		,		,	2	
(SPS7), WORMALLY (LOSEO ACI SCHEMATIC SYMBOLS FOR RELAYS 310 E3-16 DO TOU USE OR REFER TO SINGLE POLE: DOUBLE THROW (SPD7) SCHEMATIC SYMBOLS FOR REIAYS	ISPST, WORMALLY CLOSED (ACT) SCHEMATIC STHBOLS FOR PELATS 310 E3-15 DO VOU USE OR REFER TO SINGLE POLE, DOUBLE THROW (SPD7) SCHEMATIC STHBOLS FOR RELAYS 310 E3-17 DO TOU USE OR REFER TO DOUBLE POLE, DOUBLE THROW 31 35 35 49 38 24 36		FIRST ON VOIL SEE OF STREET OF STREET BOILE, STREET	2	**	36	3	13	3.4	3.5		
310 E3-16 DO TOU USE OR REFER TO SINGLE POLE, DOUBLE THROW 34 32 35 47 38 24 38 (SPDT) SCHEMATIC STABLE FOR RELAYS	310 £3-16 50 70U USE OR REFER TO SINGLE POLE, DOUBLE THROW 34 32 35 47 38 24 38 (SPD7) SCHEMATIC SYMBOLS FOR RELATS		STATES ADSTALL ADSTALL TO STATES OF TANKS OF THE STATES		,	;		ì		3		
SPATISTERATE STEEDS FOR RELAYS	(SPD7) SCHEMATIC STABOLS FOR RELATS	7	TOU USE OR REFER TO	3.8	32	35	4.7	38	24	3.8	90	
	11. E3-17 DO TOU USE OR REFER TO DOUGLE POLE, DOUGLE THROW 37 30 35 49 38 24 36 5		CHEMATTE STUBOLS FOR RELAYS									

PERCENT MEMBERS PERFORMING									
DY-TSK	5°C	5PC	SPC	SPC	SPC	245	500	SPC	
	*	2.	•	56	37	24	٢	5	
313 E3-19 DO YOU RECATS BEASTING BESTSTAND	J.	32	28	-	26	29	20	*	
SIG FI-OI IN YOUR PRESENT JOB. DO YOU PERFORM ANY TASKS DEALING	2.	21	27	25	•	-	-		
	5	5	-			5	_		
00 700	, :	~ :	7	• :		0 0	~ •	0 6	
00 YOU	28	26	29	26	۰ و	-	•	•	MICKUPHONES
00 YOU	2-	15	22	20	s	0	•	•	
CONNECTIONS BUT DO NOT TROUBLESHOOT DOWN TO									
FI-06 DO TOU TROUBLESHOOT DOWN TO MICROPHONE	•	•			~	5		0	
PI-O DO TOU MEMOVE ON REPLACE		. 4	. 5	, ,		0			
LAN FIRDS DO TOU PERCEDE TANKS ON TARBON BICROPHONES		• ^	• •	- 0	. ~	00	. .		
DO YOU PERFORM TASKS ON	~	0	2		- ,	c (c	
TOU PERFORM TASKS ON	_			·	2	s	~	0	
YOU PERFORM TASKS ON		5 4	- •	2 7	۔ ۔		- ~	o •	
FZ-OI IN YOUR PRESENT JOB . DO	0	0	=	8	s.	5	5	9	
WITH SPEAKER									
	~ .	~ ~	~ 4	~ .	- ^	0 0			
FZ-04 DO YOU OPERATE SPEAKERS	10	٠	=	7	s	s	·	•	SPEAKERS
TOU TROUBLESHOOT AS FAR AS CHECKING	7	•	•	•	_	0			
132 F2-04 DO TOU TROUBLESHOOT DOWN TO SPEAKER PARTS	-	0	_	-	-	0	_	0	
FZ-07 DO YOU REMOVE OR REPLACE		~		5	~	0	_		
F2-08 DO YOU REMOVE OR REPLACE	0	0	0	. –	-	0	_	0	
TASKS	0 0	0 0	o o	> c				5 C	
FZ-11 DO YOU PERFORM ANY TASKS ON SPEAKER	0 0	0 0	0 0	0		0 0		0	
O YOU PERFORM ANY TASKS ON SPEAKER VOICE	0	0	-	0	_	0	_	0	
YOU PERFORM ANY TASKS ON SPEAKER	0	0	-	٥	-	0	_		
FZ-14 DO YOU PERFORM ANY TASKS ON SPEAKER ELECT	0	0	٥	0	-	0	-	0	
		-		-	:	-	:		
F3-02 DO YOU USE OSCILLOSCOPES TO PERFORM OPER	- :		-	27	20	ۍ :	2	24	
CHECKS									
JAG F3-03 DO TOU USE OSCILLOSCOPES TO PERFORM ALIGNMENTS OR	•	•	•	0	13	5	-	12	OSC TILOSCOPES
ADJUSTMENTS ADJUSTMENTS ADJUSTMENTS ADJUSTMENTS	23	=	23	0	32	-	2	38	
CIRCUITS		•	5	,	•	;	2	,	
F3-06 DO YOU USE OSCILLOSCOPES TO	= :	•	0	-	12	-	12	12	

PCT MBRS ANSWRING TES FOR 326x2 DAFSC GRPS		GPSH3	GPSH3A PAGE	•		AF A E	FORCE ST	HUMAN RESOURCES LABORATORY AIR FORCE SYSTEMS COMMAND
TASK GROUP SUMMARY Percent members Performing								
0y-15k	SPC 58	SPC SPC 039 040	240	SPC 042	SPC 043	245	SPC 045	
F3-07 DO YOU USE OSCILLOSCOPES	•		•;	•	•	7	• 9	
USCILLUSCOPES TO OBSERVE	-	5	76	•	0	•		
5	•	•	•	•	•	•		
MEASUREMENTS USING DELATINE MULTIPLIERS						;		The second secon
F 352 F3-11 00 YOU USE OSCILLOSCOPES TO MEASURE OR OBSERVE	0		2 8	2 2	::		::	
	4	- 1	24		-	*	**	
G 354 G1-01 DO TOU NORK WITH SEMICONDUCTOR DIBDES IN YOUR PRESENT				•	-		12	
900								
G 1956 GI-02 DO TOU INSPECT 0100ES	~ ~	•	* "	~ -	•		• 0	
357 61-04 60 700			•	- 4	9	- ,		
358 61-05 60 700	. 0		0	-		0	O SEN	SEMICONDUCTOR
o wolfower was about	-		•		- 0	-	010	DIODES
TOGETHER ATTH VALUES OF FURNAND AND REVERSE			,	•	,	,	NAME OF STREET	
O YOU COMPUTE FORWARD OF REVERSE BIAS RESIS	-	1 0	•	2	0	-	•	
0.361 C.1-06 no You Use no Assess to The CompRes Rule Twat	,	•	4	•	,	-		
TEMPERATURE CAN AFFECT THE			,	•				
UNDUCTOR DIODES AS OPPOSED T	7	9	80	7	s	-	13	
G 343 ALTO AC YOU REFER TO OR DO YOU ATTERMINE THE SENERAL	-		•	•	9	-	0	
EFFECTS OF DOPING ON CURRENT FLOW	Territory	1000		,				
G 30% GI-11 DO YOU USE OR REFER TO MEASUREMENTS OF FORWARD BIAS	•	8	•	~	0	-	•	
OR REFER TO	_	2	-	-	4	0	2	
GI-13 DO YOU USE OR PEFER TO CENTRI	0	0 0	0	0	0	0	0	
	0	0	0	0	0	0	0	
ELECTRON IN ORBIT AROUND A NUCLEUS								
USE OR REFER	-	•	~	-	•	0	0	
G 369 GI-16 DO TOU USE OR REFER TO KINETIC ENERGY OF AN ELECTRON	0	0	0	0	0	0	0	
				•		•	•	
ELECTRON NOVING IN ORBIT	0		•	0	9	•		
0	7	7	\$	-	0	-	•	
6 372 GT-19 DG TOU USE OR REFER TO NUMBER OF ELECTRONS IN A	0	0	-	-	0	0	•	
PARTICULAR SHELL OR ORBIT								
G 373 GI-20 DO TOU USE OR REFER TO PERMISSIBLE ENERGY LEVELS OF	0	0	-	-	•	0	•	

0	_	6	-	-	0	0	0	SERICONDUCTORS JOB 61-43 DO TOU USE OR REFER TO RELATIONSHIP BETWEEN BARRIER WINTER AND DISTRIBUTOR OF POTENTIAL
•	_	0	-	-	-	0	_	195 GI-42 DO TOU USE OR REFER TO DEPLETION REGION IN
•	~	٥	-	-	0	0	0	SEMICONDUCTORS OR REFER TO JUNCTION RECOMBINATION IN
0	c	0	0	0	_	0	0	SEMICOMOUCTORS OR REFER TO MINORITY CARRIERS IN
	0	0	_	-	_	0	-	DO YOU USE OR REFER TO MAJORITY CARRIERS IN
•		5 0	~ ^	پ	2 .		 .	391 61-38 DO TOU USE OR REFER TO N-TYPE SEMICONDUCTOR MATERIAL
	-	r	u	^		£		SENICONDUCTORS
•	0	0	-	-	0	0	0	SEMICONDUCTORS SEMICONDUCTORS OR REFER TO ACCEPTOR IMPURITY IN
•	0	c	-	-	0	0	c	E OR REFER TO
•	0	0	-		_	0	2	SEMICONDUCTORS SEMICONDUCTORS OR REFER TO ELECTRON FLOW OR HOLE FLOW IN
	0	0	-	-	0	۵	a	E OR REFER TO
C	0	0	0	0	0	0	0	385 GI-32 DO YOU USE OR REFER TO COVALENT BONDING IN
0	-	0	-	0	0	0	0	384 GI-31 DO TOU USE OR REFER TO CONDUCTION BAND IN
0	0	•	٥	•	0	0	0	JOS GI-JU DO TOU USE OR REFER TO FORBIDDEN BAND IN
0	-	0	-	0	0	0	0	382 GI-29 DO YOU USE ON REFER TO VALENCE BAND IN SEMICONDUCTOR
								FORWARD BIASED OR REVERSE BIASED WHEN YOU RE
		·		o		£	·	ī
0	0	0	0	_	0	0	•	JEG G1-27 DO YOU USE OR REFER TO PA JUNCTION DIODE
	0	0	-		2	4	2	379 GI-26 DO YOU NEED TO KNOW THAT SEMICONDUCTORS HAVE NEGATIVE
	-	c	-		-		-	CONSTRUCTION OF DIODES SUCH AS GERMANIUM OR SILICON
		,			,			INDICATE THE CATHODE END
•	2	7	ۍ	•	u	6 0	ۍ	ELECTRONS IN ATOM) ELECTRONS IN ATOM)
•	0	0	-	-	0	0	0	0
•	0	0	-	-	•	0	•	DROITING ELECTRON 175 G1-22 DO YOU USE OR REFER TO VALENCE ELECTRONS (THOSE IN
C	0	0	0	0	0	0	0	374 GI-21 DO YOU USE OR REFER TO FORBIDDEN ENERGY LEVELS OF AN
SPC	500	570	SPC	041 042	5PC	950	590	DY=15K
								PERCENT MEMBERS PERFORMING
VIN LONGE SARIEMS COMMAND	*1.		17	PAGE	GPSM3A	G		CT MORS ANSWENG TES FOR 326x2 DAFSC GRPS

ISK GROUP SUMMARY RCENT MEMBERS PERFORMING		•			•			
900	SPC 038	500	040	SPC	SPC 5	SPC SPC	SPC 045	

TASK			2	GPSHJA PAGE		8	-	N FONCE	AIR FORCE SYSTEMS COMMAND
FENCE	TASK GROUP SUNMARY PERCENT MEMBERS PERFORMING								
	0Y-TSK	5PC 038	SPC 5	5PC SPC 040 041	C SPC	SPC 043	0.40	S & C O 4 5	
6 397 6	61-44 DO TOU USE OR REFER TO THE 10:1 BACK TO FRONT	•	~	7	•	5	-	•	
398 6	RESISTANCE RATIO FOR DIODES G 398 G1-45 DO YOU USE OR REFER TO BARRIER MEIGHT IN	0	0	0	~	0	0	•	
9 866 9	OR REFER TO	•	0		-	0	0	•	
00	OR REFER TO MAXIMU	0	~	0	_	0	0	0	
	5	0	7	0	_	0	0	0	
402 6	TINGS YOU USE OR REFER TO MAXIMUM SURGE O	-	~	. 0			-	• •	
403	YOU USE OR REFER TO PEAK REVERSE	-	~	-	~	0	0	0	
	DIODE RATINGS								
	DO TOU WORK WITH TRAN	•	0	•	~	•	•	12	
9 404	GATUZ DO TOU INSPECT TRANSISTORS		~ ~	o -	~ C	00	o -	n c	
401	DO YOU CHECK TRANSISTORS USING AN	- ~	. ~			~	. ~	, ~	TRANSISTORS
408	DO TOU USE OR REFER TO ENITTER	~	#	7	•	0	-	•	
0,00	STANCE MEA	^	~	-	•	0	-	•	
01,	RESISTANCE MEASUREMENTS	, ,					~		
	GA-DG DG TOU USE ON REFER TO HOM BIASING AFFECTS THE PHYSICAL DARRIED WINTH OF THE FHITTER - DARF JUNCTION	7	7	7	_	0	2	-	
6 412 6	OU USE ON REFER TO HOS BIASING AFFEC	~	7	~	_	0 2	~	•	
6 413 6	PHYSICAL BARRIER KIDTH OF THE COLLECTOR - BASE JUNCTION 62-10 DO YOU USE OR REFER TO THE PHYSICAL SIZE OF THE	-	7	-		0	-	0	
. :	LLECTOR, BASE AND EMITTER!								
	USE ON REFER TO LEAKAGE CONKENT TOBO	-	,	-	_	-	•		
51,5	GZ-12 DO TOU USE OR REFER TO TRANSISTOR SCHEMATIC STHBOLS		a 0 a	• •		•	· ·	~ •	
	ETC	•	•				•		
9	GA-14 DO TOU USE OR REFER TO THANSISTOR SUBSTITUTION INFORMATION	-	~	0	_	э С	•	0	
9 81 5 9	O THE GENERAL	-	~	-		0	-	•	
01.	MANNEYS OF WASSE CORRENT 18 15 NORTHALLY SIGNIFICANTLY	•					•		
:	BASE CURRENT IS THE CONTROLLING FAC	•	•				•	•	
9 024 9	L RULE THAT LEAKAGE CU	-	7	0	7	0	-	-	
421	TORREST THE MANAGEMENT OF THE PERSONS								

SISTORS USING A FORMULA THAT IS, DO TOU DIVIDE THE CHANGE	TOU CA	100	G 445 G3-16 DO YOU MEASURE CURRENT GAIN USED IN THE COMMON.	PARTICULAR TRANSISTOR 6 444 63-17 DO TOU HEASURE VOLTAGE GAIN USED IN THE COMMON	G 443 G3-16 DO TOU CALCULATE THE SPECIFIC QUIESCENT POINT FOR A TRANSISTOR	YOU USE OR REFER TO THE OPERATING POINT &	CALCULATIONS MECESSARY TO MEASURE THE SPECIFIC CHANGE IN G 441 G3_14 DO YOU USE THE LOAD-LINE METHOD OF ANALYSIS IN YOUR CIRCUIT AMALYSIS (THIS METHOD REQUIRES YOU TO PLOT A	G 440 G3-13 DO YOU USE OR REFER TO (COMMON EMITTER) THE	G 439 G3-12 DO YOU USE OR REFER TO (COMMON EMITTER) THE CHANGE IN	G 438 G3-11 DO YOU USE OR REFER TO (COMMON EMITTER) THE	6 437 63-10 DO YOU USE OR REFER TO (COMMON EMITTER) THE CHANGE IN	GALCULATIONS NECESSARY TO MEASURE THE SPECIFIC CHANGE IN	COLLECTOR C	G 434 G3=07 DO TOU USE OR REFER TO (COMMON EMITTER) THE CHARGE IN	433 G3-06 DO YOU REMOVE	432 63-05 DO YOU	431 63-04 DO YOU	63-03 DO YOU		00 400	62-24 DO YOU CALCULATE	62-23 DO YOU	62-22 DO YOU CALCULATE BETA TRANSISTOR GAINS	62-21 DO YOU USE OR REFER TO GAMMA TRANSISTOR	DO VOU USE OR REFER TO	67-19 Do You lief on beefe	DY-15K	PERCENT MEMBERS PERFORMING	
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AF HUMAN RESOURCES LABORATORY
AIR FORCE SYSTEMS COMMAND

GPSH3A PAGE 19

PCT MBRS ANSWRNG TES FOR 326x2 DAFSC GRPS

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٠		CALCULATE THE POWER GA	0	0	0	0	0	•	0	٥	
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9	152 6	TRANSISTOR AT DIFFERENT TEMPERATURES 63-25 DO TOU IDENTIFY ON SCHEMATIC DIAGRAMS AND RELATE TO THE ATTUAL CIPCLITAY AND COMPONENTS ASSOCIATED WITH	~	~	-	•	-	0	-	•	
•	453 6	U IDENTIFY ON SCHEMATIC DIAGRAMS AND RELAT	~	2	-	~	-	3	-	•	
٠	.54	CIRCUITRY THE COMPONENTS ASSOCIATED IDENTIFY ON SCHEMATIC DIAGRAMS AND	~	~	-	•	-	•	-	٥	
•	455 6	CIRCUITAT THE COMPONENTS ASSOCIATED I IDENTIFY ON SCHEMATIC DIAGRAMS AND	~	~	~	*	-	0	-	•	
و	9954	THE ACTUAL CINCUITRY THE COMPONENTS ASSOCIATED WITH G3-29 DO YOU IDENTIFY ON SCHEMATIC DIAGRAMS AND RELATE TO	~	~	~	*	-	0	-	-	
٠	457 6	CIRCUITAT THE	-	~	-	~	-	0	-	0	
9	158	THE ACTUAL CIRCUITRY THE COMPONENTS ASSOCIATED WITH GA-31 DO YOU TROUBLESHOOT CIRCUITS WHICH HAVE COMPONENTS	-	~	-	~	-	3	-	•	
•	459	MAICA PERFORM EMITTER (SMAMPILG) RESISTOR STABILIZATION 03-32 DO 700 TROUBLESHOOT CIRCUITS WHICH MAVE COMPONENTS	-	~	-	-	-	0	-	-	
	09,	WHICH PERFORM SELF-BIAS STABILIZATION G3-33 DO YOU TROUBLESHOOT CINCUITS WHICH MAVE COMPONENTS	~	~	~	-	-	9	-	0	
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ی	462 6	FORWARD BIAS	-	~	~	-	-	0	-	•	
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9	. 9 .	WHICH PERFORM DOUBLE DIDDE STABILIZATION G3-37 DO YOU IDENTIFY AMPLITUDE DISTORTION FOR TRANSISTOR	D	0	0	-	0	9	0	0	
٠	165 6	CIRCUITS CIRCUITS A DE LES MOUTENBOT TRANSISTOR CIRCUITS TO FIND THE	5	~	0	0	0	0	0	٥	
		CAUSES OF AMPLITUDE DISTORTION									

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USE OR REFER TO	USE OR REFER TO	USE OR REFER TO	USE OR RESER TO	USE OR REF	BORK BITH THREE-PHASE	WITH BRIDGE RECT		MORK WITH FULL-WAVE	WORK WITH HALF-WAVE RECTIFIERS			TROUBLESHOOT TO POWER	TROUBLESHOOT TO POMER		CLEAN POWER SU	TOUR PARTORNET JOBS DO TOU MORE ALLES TOURES SOFTEENES	USE OR REFER TO I	USE OR REFER TO	USE OR REFER TO UNIJUNCTION TRANSISTORS	USE OR REFER TO FIELD E	USE OR REFER		S TROUBLESHOOT OR REPAIR CASCADE CONNECTED	OU TROUBLESHOOT OR REPAIR COMPOUND-CONNECTED	OU TROUBLESHOOT OR REPAIR COMPLEMENTANT STAMETRY	TROUBLESHOOT OR REPAIR	OU TROUBLESHOOT OR REPAIR PARAPHASE AMPLIFIERS	AMPLIFIERS IN ORDER TO TROUBLESHOOT AMPLIFIER CIRCUITS	20	YOU NEED TO KNOW THE DEGENERATIVE EFFECTS ON THE		3-42 DO YOU TROUBLESHOOT TRANSISTOR CIRCUITS TO FIND THE	TOU TROUBLESHOOT TRANSISTOR CIRCUITS TO FIND THE	OU IDENTIFY PHASE DISTORTION FOR TRANSISTOR	OU IDENTIFY FREQUENCY DISTORTION FOR TRANSISTOR
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AF HUMAN RESOURCES LABORATORY
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PCT MBRS ANSWRUG YES FOR 326X2 DAFSC GRPS

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PERCENT MEMBERS PERFORMING								
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SIG H3-05 DO YOU REMOVE OR REPLACE		0	0	0	0	0	0	0
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DO YOU USE OR REFER TO		. ~			. ~	n .n	. 0	
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H 531 H3-ZC DO TOU MORK WITH OSCILLATORS WHICH	CH USE CRYSTALS AS	2	7	•	•	s	~	•
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MHICH TYPE OF FOD			,					
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AINS ELECTRON TUBES	13-01 IN TOUR PRESENT JOB, DO YOU WORK ON EQUIPMENT BHICH	C. SCI. TO TOO HORK WITH DON'T KNOW MHICH TYPE OF CLAMPING	DO TOU WORK WITH DIODE CLAMPING CIRCUITS .	DO YOU WORK WITH BASIC DIODE CLAMPING CIRCUITS	TOU WORK WITH DON'T KNOW	HILM MUN NOA OG	DO YOU WORK WITH	DO YOU WORK WITH	DO TOU WORK WITH SHUNT D	2 00	12-36 DO TOO WORK WITH LIMITERS ON CLAMPERS IN YOUR	ORS	DO YOU WORK WITH	IS DO YOU WORK WITH	THE DO TOO TORK WITH HOROSTONIA MULTIVERSONOMS	MOER WHICH TYPE OF	114	IT-II DO YOU WORK WITH HULTIVIBRATORS WHICH CONTAIN	TITIO DO YOU WORK WITH MULTIVIBRATORS WHICH CONTAIN RC	YOU WORK WITH HULTIVINRATORS WHICH CONTAIN LC	11-08 DO YOU REMOVE OR REPLACE WAVE GENERATING OR SHAPING	YOU REMOVE OR REPLACE COMPLETE MAVE GENERATING	CIRCUITS 11-06 DO YOU TROUBLESHOOT TO WAVE GENERATING OR SHAPING	YOU TROUBLESHOOT TO WAVE GENERATING OR SI		AON WEIGH	DO YOU INSPECT WAVE GENERATING OR SHAP	11-01 DO TOO WORK WITH HOLTIVIANTORS IN TOOR PRESENT JOB	NI-27 DO TOU HORK WITH DON'T RENEMBER WHICH TYPE OF	DO YOU WORK WITH	DO YOU WORK WITH	DO YOU WORK WITH COLPITTS SINUSCIDAL OSCILLATORS	DO YOU WORK WITH SHUNT MARTLEY SINUSOIDAL OSCILLAT	07-156	
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ELECTRON TUBES	The second of								CLAMPERS	LIMITERS AND																MULTIVIBRATORS									

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AIR FORCE SYSTEMS COMMAND

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PCT MBRS ANSWRNG YES FOR 326x2 DAFSC GRPS

AF HUMAN RESOURCES LABORATORY AIR FORCE SYSTEMS COMMAND 0000000 240 0000000000 240 30 000000000000 00000 0 0 a 0 9 5 260 ----0000000 0 0 0 0 0 0 GPSH3A PAGE SPC 000000000000 0000000 240 000-00000000 5 CO 000000000000 0000000 000-00000000 0000000 0 0 0 JR ELECTRON TUBES

USE OR REFER TO PLATE CURRENT

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USE OR REFER TO GRID CURRENT

USE OR REFER TO GRID VOLTAGE

USE OR REFER TO CATHODE CURRENT

USE OR REFER TO THE TRIDDE AMPLIFICATION

MAPLIFICATION FACTOR FOR TRIDDES IS DEFINED AS 13-03 DO YOU USE TUBE TESTERS TO CHECK ELECTRON TUBES
13-04 DO YOU USE SCOPES TO CHECK ELECTRON TUBES
14-13-05 DO YOU USE SCOPES TO CHECK ELECTRON TUBES
15-05 DO YOU USE SUBSTITUTION TO CHECK ELECTRON TUBES
113-05 DO YOU USE ON REFER TO PEAK INVERSE VOLTAGE RATING
13-10 DO YOU USE ON REFER TO PEAK INVERSE VOLTAGE RATING
13-11 DO YOU USE ON REFER TO PLATE DISSIPATION RATING
13-12 DO YOU USE ON REFER TO SATURATION
13-13 DO YOU USE ON REFER TO SATURATION
13-13 DO YOU USE ON REFER TO SATURATION
13-14 DO YOU USE ON REFER TO SATURATION
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13-15 DO YOU USE ON REFER TO DE PLATE RESISTANCE
13-15 DO YOU USE ON REFER TO DE PLATE VOLTAGE ETC) AMPLIFICATION FACTORS 13-24 DO YOU USE OR REFER TO ELECTRON TUBE TRANSCOMUUCTANCE 1G. WHICH IS MEASURED IN MHOS) CAPACITANCE 13-24 DO TOU USE OR REFER TO CHARACTERISTIC CURVES IN YOUR AMPLIFICATION FACTORS 587 13-23 DO YOU USE OR REFER TO MULTIGRID (TETRODE, PENTODE, RESISTANCE 592 13-28 DO YOU USE OR REFER TO ELECTRON TUBE INTERELECTRODE 13-25 DO YOU CALCULATE ACTUAL VALUES OF ELECTRON TUBE TRANSCOMDUCTANCES 13-26 DO YOU USE OR REFER TO THE ELECTRON TUBE PARAMETER CALLED AC PLATE RESISTANCE 13-27 DO YOU CALCULATE ACTUAL VALUES OF AC PLATE MORK MITH ELECTRON TUBES
13-30 DO TOU USE CHARACTERISTIC CURVES TO SELECT PLATE
VOLTAGE FOR A SPECIFIED BIAS
13-31 DG TOU USE CHARACTERISTIC CURVES TO SELECT PLATE CURRENT FOR A SPECIFIED BIAS 13-32 DO TOU USE CHARACTERISTIC CURVES TO SELECT BIAS 13-33 DO YOU USE CHARACTERISTIC CURVES TO SELECT BIAS REQUIRED FOR SATURATION 584 13-22 DO YOU CALCULATE ACTUAL VALUES OF TRIODE PCT MBRS ANSWRNG YES FOR 326x2 DAFSC GRPS TASK GROUP SUMMARY PERCENT MEMBERS PERFORMING REGULAED FOR CUTOFF AMA USE 350 3-16 00 700 U 3-16 13-51 288 589 545 575 576 577 583 045 543 294 1 596 597 185

J 622 J2-07 DO YOU USE OR ELECTRON GUNS OF CA J 623 J2-08 DO YOU USE OR ELECTROMAGNETIC DEF	J 621 J2-D6 DO YOU TROUBLESHOOT	USE			CATHODE	OF AMPLIFIER	AMPLIFIERS	AMPLIFIERS J 614 JI-06 DO TOU TROUBLESHOOT	613 J1-05 DO YOU	J 612 JI-04 DO YOU TROUBLESHOOT	TUBE AMPLIFI	L 610 LI-02 DO YOU DETERMINE THE		SUCH AS MANUALS OR	OPERATING TEMPER	_		AS INPUT CAPACITANCE	I 604 13-40 DO YOU CALCULATE ANY EL	1 603 13-39 DO YOU USE CHA	-	I SO I I SE NOT USE NOT	TUBE AMPLIFIER	_	13-35 DO YOU USE OR	USE OR	
OR REFER TO THE PRINCIPLES OF OPERATION F CATHODE-RAY TUBES (CRT) OR REFER TO THE PRINCIPLES OF OPERATION DEFLECTION SYSTEMS OF CATHODE-RAY TUBES	SHOOT OR REPAIR CIRCUITS IN WHICH	OR REFER TO THE CHARACTERISTICS OF	SHOOT OR REPAIR CIRCUITS IN WHICH	USE OR REFER TO THE CHARACTERISTICS OF	SOME SILE GAS LOSES THOSE CALLOGS OF COLO	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2		20	OR REPAIR	SHOOT OR REPAIR PUSH-PULL ARPLIFIERS	TO TROUBLE	5	TH ELECTRON TUBE AMPLIFIERS	OR CHARTS	THE EMITTING SURFACE	TO THE TYPE OF MATERIAL	EFER TO	RESER TO THE SOCKET NOTATION	TE ANY ELECTRON TUBE CAPACITANCES	CHARACTERISTIC CURVES TO DETERMINE	OSCILLOSCOPES TO DETERMINE ELECTRON	MULTIMETERS TO DETERMINE ELECTRON		ST TUBE CHECKERS TO DETERMINE ELECTRON	REFER TO ELECTRON TUBE AMPLIFIER	TO ELECTRON	DY-15k
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				ELECTRON TUBES	SPECIAL PURPOSE						AND CIRCUITS	AMPLIFIERS	!														

AF HUMAN RESOURCES LABORATORY

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PCT MURS ANSWRING YES FOR 326x2 DAFSC GRPS

TASK GROUP SUMMARY PERCENT MEMBERS PERFORMING AF HUMAN RESOURCES LABORATORY AIR FORCE SYSTEMS COMMAND HETERODYNING, MODULATION, AND DEMODULATION SYSTEMS AM . 5 5 M0000000M 245 0 4 4 0 • 77 200 00000 0 0 0000 00000 0 00 SPC 043 9000000 000 2 10 0 00000 36 240 -000 20 -08 GPSH3A PAGE SPC .0 ~ 1 200 20 0 5 7 500 040400 . -2 1 = 5PC 038 • • 12 DO YOU USE OR REFER TO THE PRINCIPLES OF OPERATION OF ROSTATIC DEFLECTION SYSTEMS OF CATHODE—RAY TUBES OF OYOU USE OR REFER TO ADUDAG COATINGS DO YOU USE OR REFER TO ADUDAG COATINGS DO YOU USE OR REFER TO ELECTRON OFTICS DO YOU USE OR REFER TO DECAY TIMES DO YOU USE OR REFER TO DECAY TIMES DO YOU USE OR REFER TO PLORESCENCE DO YOU USE OR REFER TO PLORESCENCE DO YOU USE OR REFER TO PHOSPHORESCENCE DO YOU USE OR REFER TO PHOSPHORESCENCE INSPECT AN TRANSMIT OR RECEIVE SYSTEMS
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PERFORM TASKS ON LOCAL OSCILLATORS
PERFORM TASKS ON DOWN TAMPLIFIERS
PERFORM TASKS ON DOWN TREMEMBER WHICH AM STAGE
USE OR REFER TO AMPLITUDE STABILIZATION IN 6 TOU PERFORM TASKS ON FREQUENCY CONVERTERS YOU PERFORM TASKS ON FREQUENCY MIXERS YOU USE OR REFER TO THE HETERODYNING OF SIGNALS OR REFER TO FREQUENCY STABILIZATION IN UN WORK WITH TRANSMIT OR RECEIVE SYSTEMS

OU YOU PERFORM IASKS ON MEDOLLATED OSCILLATORS

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TOUR

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L 700 LI=06 DO YOU USE OR REFER TO TRUTH TABLES FOR AND LOGIC
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L 701 KI=07 DO YOU USE OR REFER TO TRUTH TABLES FOR OR LOGIC
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L 702 KI=08 DO YOU USE OR REFER TO TRUTH TABLES FOR AND OR OR
LOGIC SYMBOLS MITH STATE INDICATORS

L 703 LI=09 DO YOU USE OR REFER TO TRUTH TABLES FOR EXCLUSIVE OR CH GATES

LZ-UI IN YOUR PRESENT JOB! DO YOU PERFORM ANY TASKS

RELATING TO BOOLEAN EQUATIONS, LOGIC DIAGRAMS, OR LOGIC

L 709 LZ-U2 DO YOU DAWA LOGIC SYMBOLS FOR DIRECT COUPLED

TRANSISTOR LOGIC (OCTL) CIRCUITS

L 710 LZ-03 DO YOU COMSTRUCT TRUTH TABLES FOR CURRENT MODE LOGIC

(CML) CIRCUITS

L 711 LZ-U4 DO YOU ORAW LOGIC CIAGRAMS FROM GIVEN BOOLEAN SYMBOLS WITH STATE INDICATORS
L 649 LI-05 DO YOU CONSTRUCT TRUTH TABLES FOR EXCLUSIVE OR LOGIC LOGIC SYMBOLS

LI-10 DO YOU USE OR REFER TO LUGIC SYMBOLS FOR AND GATES

LI-11 DO YOU USE OR REFER TO LOGIC SYMBOLS FOR OR GATES

LI-12 DO YOU USE OR REFER TO LOGIC SYMBOLS FOR NAND OR NOR ALGEBRA ALGEBRA TO LOGIC SYMBOLS FOR DIRECT COUPLED TRANSISTOR LOGIC (DCTL) CIRCUIT GATES L2-09 DO YOU USE OR REFER TO TRUTH TABLES FOR CURRENT MODE MORE THAM ONE GATE 2-11 DO TOU COMPUTE SUM AND CARRY EXPRESSIONS FOR SERIAL MALF OR FULL ADDER LOGIC DIAGNAMS RELATING TO LOGIC FUNCTIONS L 694 L1-02 DO YOU CONSTRUCT TRUTH TABLES FOR AND LOGIC STMBOLS LOGIC (CML) CIPCUITS
L 717 L2-10 DO YOU USE OR REFER TO LOGIC DIAGRAMS CONSISTING OF EQUATIONS

1 712 LZ-05 DO TOU MEASURE IMPUTS OR OUTPUTS OF LOGIC GATES

1 713 LZ-06 DO TOU DEVELOP OR AMALYZE BOOLEAN EQUATIONS IN THE
PROCESS OF TROUBLESHOOTING OIGITAL CIRCUITS

1 714 LZ-07 DO TOU AMALYZE LOGIC CIRCUITS BY USING BOOLEAN L 697 LI-03 DO TOU CONSTRUCT TRUTH TABLES FOR OR LOGIC SYMBOLS
OR GATES
LI-09 DO TOU CONSTRUCT TRUTH TABLES FOR AND OR OR LOGIC GATES LI-13 DO YOU USE OR REFER TO LOGIC SYMBOLS FOR EXCLUSIVE K 694 K3-10 DO YDU ADD OCTAL NUMBERS TO GET A SUM L 695 LI-DI IN TOUR PRESENT JOB; DO YOU PERFORM ANY TASKS PCT MBRS ANSWRNG YES FOR 326x2 DAFSC GRPS PERCENT HEMBERS PERFORMING 705 107 116 1 715 61, 7

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AF HUMAN RESOURCES LABORATORY AIR FORCE SYSTEMS COMMAND TIMING CIRCUITS USE OF SIGNAL GENERATORS 245 0 0 0 0 0 0 0 7 7 8 8 0 2 5 . 7 3 5 9 0 0 00 30 240 GPSH3A PAGE 245 0 0 0 0 0 240 0 00 SPC 20 . 0 0 0 0 2 -DECADE COUNTERS

L 35 L3-23 DO YOU DETERHINE THE STATE OF EACH FLIP-FLOP IN RING
COUNTERS FOR SPECIFIC INPUT PULSES
L 3-24 DO YOU DETERHINE THE APPROPRIATE AND GATE NECESSARY
IN COUNT DETECT CINCUITS TO JADICATE A REGULFED COUNT
H 757 MI-01 DO YOU WORK WITH SAWTOOTH MAVE GENERATORS
H 758 MI-02 DO YOU WORK WITH TRAPEZOIDAL WAVE GENERATORS
H 759 MI-03 DO YOU WORK WITH PULSED OSCILLATORS WITH REGENERATIVE CONTER TYPE OF COUNTERS

L 750 L3-18 DO YOU COMPUTE THE BINARY COUNT AFTER SPECIFIC IMPUT
PULSES FOR UP-COUNTERS HAVING COMPLEMENTED FLIP-FLOPS

L 751 L3-19 DO YOU COMPUTE THE BINARY COUNT AFTER SPECIFIC IMPUT
PULSES FOR SERIAL UP- OF DOWN-COUNTERS HAVING COMPLEMENTL 752 L3-20 DO YOU COMPUTE THE BINARY COUNT AFTER SPECIFIC IMPUT
PULSES FOR SERIAL UP-COUNTERS FEEDING A PARALLEL STORAGE
PULSES FOR SERIAL UP-COUNTERS FEEDING A PARALLEL STORAGE OR REFER TO RISE TIME
ON REFER TO FALL OR FLYBACK TIME
OR REFER TO SWEEP TIME
OR REFER TO ELECTRICAL LENGTH OF SANTOOTH MAVEFORMS

M 749 M2-31 DO YOU USE SIGNAL GENERATORS IN YOUR PRESENT JOB

H 770 M2-32 DO YOU PERFORM OPERATIONAL CHECKS MMILE USING SIGNAL L 753 L3-21 DO YOU COMPUTE THE BINARY COUNT AFTER SPECIFIC INPUT PULSES FOR OTHER TYPES OF COUNTERS L 754 L3-22 DO YOU CONSTRUCT TRUTH TABLES FROM LOGIC DIAGRAMS OF M 766 MI-10 DO YOU USE OR REFER TO PHYSICAL LENGTH OF SANTOOTH ADJUSTING, ALIGNING, OF CALIBRATING WHILE USING SIGNAL H 772 M2-04 DO TOU TROUBLESHOOT TO AN ASSEMBLY ON SUBASSEMBLY L 249 L3-17 DO YOU TRACE DATA FLOW THROUGH LOGIC DIAGRAMS OF WHILE USING SIGNAL GENERATORS Z-05 DG TOU TROUBLESHOOT TO THE SMALLEST REPLACEABLE CCMPONENT WHILE USING SIGNAL GENERATORS Z-06 DG TOU USE AUDIO SINE-WAVE GENERATORS M 767 MI-11 DO YOU USE OR REFER TO LINEAR SLOPE OF SAMTOOTH H 768 HI-12 DO YOU USE OR REFER TO GATE LENGTH OF SAMTOOTH M 771 MZ-03 DO YOU PERFORM PERIODIC HAINTENANCE SUCH AS # 760 MI-04 DO YOU MORK WITH PULSED OSCILLATORS WITHOUT DO YOU WORK WITH BLOCKING OSCILLATORS PLT MBRS ANSWRNG YES FOR 326x2 DAFSC GRPS REGENERATIVE FEEDBACK TASK GROUP SUMMARY PERCENT MEMBERS PERFORMING USE USE USE 40 GENERATORS MAVEFORMS MAVEFORMS FEEDBACK 4 773 HZ-05 45-CH 50-IH 90-1H 597 H 163 104 197 # × 774

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TASK GROUP SUMMARY
PERCENT MEMBERS PERFORMING

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874 01-30	TRACE SIGNALS OF	•	•	•	2	0	۰	•	•	
875 02-01	DO TOU WORK ON PULSE MODULATION SYSTEMS IN YOUR	-	11	*	13	12	•-	12	12	
BTA 02-02 DO	ENT JOB	•	-	•	,	9	•	•	•	
	DO TOU CLEAN PULSE MODULATION ST	•	0	•	•		0	2	•	PULSE MODULATIO
	201	•	*	*	-		s	•	•	SYSTEMS
	DO YOU TROUBLESHOOT TO PULSE MODULATION	12	•	12	•	•	61	11	1.2	
880 02-06	2-06 DO YOU TROUBLESHOOT TO PULSE MODULATION SYSTEM	s	•	•	•	•	•	1	•	
881 02-07	DO YOU REMOVE OR REPLACE	13	11	12	•	9 -	6-	•	91	
05-08	DO YOU REMOVE OR REPLACE PULSE MODULATION	s	•	•	7	7	s	1	•	
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884 02-10 00	DO YOU MORK ON PULSE-DURATION HODULATION (POH)	^	~	•	•	•	0	•	•	
SYSTEMS 885 02-11 DO	DO TOU HORK ON PULSE-POSITION HODULATION (PPR)	,	~	~	•	•	v	~	•	
SYSTEMS										
886 02-12 00	DO YOU HORK ON PULSE-CODE MODULATION (PCH) SYSTEMS	~-	~ 0	20	~~		00	0 0	~ •	
0	TOU WORK ON DON'T RE	• •	•	•	s	- 0	0	0	•	
889 02-15	DOWER SUPPLIES	~	•	•	~	٠	0	•	•	
890 02-16	FORM TASKS ON	0	٥	٥	~	-	0	0	•	
891 02-17	CHARGING CHOKES AND CHARGING DIDDES	~	•	7	7	5	10	•	•	A CONTRACTOR OF THE PARTY OF TH
	WALLS HETBORKS TOU PROFICE TAKES ON PULSE MODULATION	-	*	-	~		01	-	•	
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0 594 02-20	DZ-ZO DO YOU PERFORM TASKS ON PULSE MODULATION SYSTEM	-	7	~	~	~	'n	~	~	
895 02-21	02-21 DO TOU PEPFORM TASKS ON PULSE MODULATION SYSTEM	-	0	0	~	-	0	٥		
896 02-22	TRANSTITER TUBES 02-22 DO YOU PERFORM TASKS ON PULSE MODULATION SYSTEM RE	2	٠	-	-	•	•	s	~	
897 0Z-23	AMPLIFIERS 02-23 DO TOU PERFORM TASKS ON PULSE MODULATION SYSTEM	-	0	-	~	•	0	•	~	
698 02-24	FREGUENCY CONVERTERS 02-24 DO YOU PERCORN TICKS ON BUISE MODULATION SYSTEM	-	7	-	~	•	ď	~		
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M 1 C 4 V	WHICH ARE LONGER THAN A HALF-HAVE ACT AS INDUCTIVE LOADS	DI-IN DO YOU USE OR	03-13 00 TOU USE OR	IN RELATION	REPRESENTATIONS OF	03-11 00	REPRE	01-10	03-09	03-08	200	03-05 00 TOU ELEC	03-04	03-03	03-02	10-50	02-39 DO YOU TRACE SIGNALS OR CURRENT PATHS MODULATION RECEIVER SCHEMATIC DIAGRAMS	MODULATION TRANSMITTER SCHEMATIC DIAGRAMS	PEAK POWER OF PULSE MODULATION TRANSMIT STSTEMS	02-37	RECURRENCE PREDUENCY (PRF)	RECURRENCE FREQUENCY (PRF)	02-35	2-34	2000	02-37	02-30	PRF	ADDRIK BELLEVINE BEING OF BELEE BO BEN DOA OF 62-20 GROUNDE BELLEVINE BELEEF BELLEVINE	02-28 00	POUR VIDEO	02-27 DO Y	02-26			GROUP	
38	ARE		00 10	4710	SENTAT	00 YO	SENT A	00 10	00 70	70	1	00 10	00 40	00 40	00 YOU	00 00	10 YO	100	POWER	00 Yo	z	z	00 YOU	00 100	700		DO YOU		DO YO	00 40	VIDE	DO 700	DO TOU			REMBERS PERFORMING	•
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10	-	REFER TO THE GENERAL RULE THAT AND	70 7,		H OR MAGNETIC FIELD LINES	REFER TO TECHNICAL DATA CONTAININ	E OR ELECTRIC FIELD LINES	REFER TO TECHNICAL DATA CONTAININ	REMOVE OR PEPLACE COMPONENTS			ELECTRICALLY ALIGN ANTERNAS	.16N	5	SAN	WORK WITH ANTENNAS	200	1	110	DO YOU USE FORMULAS TO CALCULATE AVERAGE POWER	725		-						70 00	0 2		0		*			
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AF HUMAN RESOURCES LABORATORY AIR FORCE SYSTEMS COMMAND GPSH3A PAGE 36 PCT MBRS ANSWRNG YES FOR 326X2 DAFSC GRPS

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135 03-22 DO TOU USE OR REFER TO THE TERM ELECTROMAGNETIC	•		2	-	0	•	•
936 03-23 DO YOU MEASURE FIELTROMACKETIC INDUCTION FIELDS OF	-	0	1	-	0	-	•
ANTENNAS							
937 U3-24 DO YOU USE OR REFER TO THE TERM ELECTROMAGNETIC	01	5	8	•	6-1	•	
938 03-25 DO TOU MEASURE ELECTHOMAGNETIC RADIATION			7	*	s	*	•
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945 03-32 DO THE ANTENNA ARRAYS YOU WORK WITH CONTAIN PARASITIC	s	•	5 5	•	6.1	^	•
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ELEMENTS SERVING AS DIRECTORS 947 03-34 DO THE ANTENNA ARRAYS YOU WORK WITH CONTAIN PARASITIC			•	•	ın	•	
ELEMENTS SERVING AS REFLECTORS						,	;
MORK MITH CONTAIN DON'T	22	28 22	2 20	32	13	35	
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DO TOUR DO TOUR OF STREET	2.7		22 18		-	51	
03-38 DO YOU BORK ON DON'T RESEMBER THE DIRECTIONALITY			12	27	54	*	**
RAYS				•	•		71
PI-UI IN YOUR PRESENT JOB OF YOU WORK			1	1	29	,	26
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TRANSHISSION LINES							TRANSMISSION
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TASK GROUP SUMMANY

ELECTRICAL LENGTH FOR GIVEN FREQUENCIES P 930 PI-20 DO TOU USE OR REFER TO THE GENERAL RULE THAT AS THE FREQUENCY INCREASES AND THE PHYSICAL LENGTH OF	P 979 PI-27 DO TOU CONSTRUCT TRANSMISSION LINES OF PARTICULAR	OF TRANSMISSION LINES P 978 PI-26 DO TOU COMPUTE THE ELECTRICAL LENGTH OF TRANSMISSION	P 977 PI-25 DO TOU USE OR REFER TO THE TERM VELOCITY FACTOR (K)	P 976 PI-24 DO TOU USE OR REFER TO THE TERM CUTOFF FREQUENCY OF	P 975 PI-23 DO YOU CALCULATE THE CHARACTERISTIC IMPEDANCE (ZO) OF	P 974 PI-22 DO YOU USE OR REFER TO THE TERM CHARACTERISTIC		P 972 PI-20 DO YOU MORK WITH TRANSMISSION LINES WHICH ARE MATCHED	P 971 PI-19 OO TOU WORK WITH TRANSMISSION LINES WHICH ARE MATCHED	NS NECESSARY	P 969 PI-17 DO TOU CALCULATE STANDING MAVE RATIOS (SWR) OF	P 968 PI-16 DO YOU MEASURE STANDING WAVE RATIOS (SR) OF	TERMINATIONS IN TERMS OF CHROLIT TERMINATIONS	TERMINATIONS TO ACHIEVE DESIRED MAVEFORMS	P 966 PI-14 DO TOU SELECT APPROPRIATE TRANSMISSION LINES	P 965 PI-13 DO YOU ANALYZE VOLTAGE OR CURRENT WAVEFORMS IN	P 964 PI-12 DO YOU TROUBLESHOOT TRANSMISSION LINES	P 963 PI-II DO YOU HORK WITH RIGID COAXIAL CABLE TRANSMISSION	PI-10 DO YOU WORK WITH	PI-09 DO YOU WORK WITH OPEN	PI-OB DO YOU WORK WITH	P 959 PI=07 DO YOU WORK WITH THISTED PAIR TRANSMISSION LINES	TRANSMISSION LINES	P 957 PI-05 DO YOU USE OR REFER TO DIELECTRIC LOSS IN	P 954 PI-04 DO YOU REFER TO OR USE RADIATION LOSS IN TRANSMISSION	DY-75K
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AF HUMAN RESOURCES LABORATORY AIR FORCE SYSTEMS COMMAND WAVEGUIDES AND CAVITY RESONATORS 00 0 0 0 240 SPC 043 0 2764044 5PC 200 0 200 07 200 222 422 500 07 TO THE TELL TATE WOULD SOME CAVITY RESONATORS

ON YOU GENO WAVEGUIDES OR CAVITY RESONATORS

ON YOU THIST MAY EGUIDES OR CAVITY RESONATORS

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ON YOU PROBLESHOT YAVEGUIDES OR CAVITY RESONATORS

ON YOU PROVE OR INSTALL COMPLETE MAYEGUIDES

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ON YOU REMOVE OR INSTALL OTHER BENDS

ON YOU REMOVE OR INSTALL OTHER BENDS

ON YOU REMOVE OR INSTALL CHOKE JOINTS CONDITIONS

WAVEGUIDES ARE MADE WITH A "B" WALL SIZE OF "7 WAVELENGTHS

WAVEGUIDES ARE MADE WITH A "B" WALL SIZE OF "7 WAVELENGTHS

PICH PASSON TOU USE OR REFER TO THE GENERAL PULE THAT MOST "A"

WALLS RAWGE FROM "2 TO "5 MAVELENTHS IN SIZE, WITH "35

FICIZ PZ=ZT ARE TOU CONCERIED WITH THE WALERIAL (SUCH AS BRASS)

WHICH WAVEGUIDES ARE WADE OF

PICH A WAVEGUIDE FOR SPECIFIC LINES
P 48.2 PI-30 DO YOU WORK WITH RESONANT TRANSMISSION LINES
P 48.3 PI-31 DO YOU WORK WITH TRANSMISSION LINES WHICH ARE MATCHED
TO LOADS USING STUB MATCHING
P 48.4 PZ-01 DO YOU WORK WITH WAVEGUIDES OR CAVITY RESONATORS IN OR INSTALL DIRECTIONAL COUPLERS
OR INSTALL BIDIRECTIONAL COUPLERS
REFER TO "A" WALL OF WAVEGUIDES
REFER TO CUTOFF FREQUENCY OF WAVEGUIDES
REFER TO FREQUENCY OF WAVEGUIDES MAVEGUIDES
PIODS P2-23 DO YOU USE OR REFER TO POWER-DETERNINING WALL OF P 981 PI-29 DO YOU MORK WITH NONRESONANT (FLAT) TRANSMISSION CONDITIONS
PICOV PZ-Z6 DO TOU USE OR REFER TO DUPLEXER FIELD BOUNDARY YOU INSPECT MAVEGUIDES OR CAVITY RESONATORS WAVEGUIDES PISOT PETER TO ELECTRIC FIELD BOUNDARY CONDITIONS
PICOB PZ-ZS DO TOU USE OR REFER TO MAGNETIC FIELD BOUNDARY PCT MBRS ANSWRNG TES FOR 326X2 DAFSC GRPS TASK GROUP SUMMARY PERCENT MEMBERS PERFORMING REHOVE REHOVE USE 00 400 INSTALLATION 400 0000000 00 P2-03 P2-13 P1005 P2-22 P2-05 P2-09 11-24 P1004 P2-21 P2-07 066 643 P1000 * 00 ... P1603

PID35 P3-02 DO YOU USE OR REFER TO INTERELECTRODE CAPACITANCE PID36 P3-03 DO YOU USE OR REFER TO ELECTRON TRANSIT TIME PID37 P3-04 DO YOU USE OR REFER TO LEAD INDUCTANCE	TRAVELING WAVE TUBES (THT),	PZ-SU DO TOU HEASURE THE FREQUENCY OF	177	PZ-48 DO TOU TUNE CAVITY RESONATORS USING VOLUME	PZ-47 DO TOU TUNE CAVITY RESONATORS USING		PIC20 P2-45 ARE DON'T REMEMBER THE KIND OF JOINTS USED IN	RESONATORS YOU WORK MITH	RESOLATORS YOU HORK BITH	ED IN WAVEGUIDES OR CAVITY	PIONS PRINTED TO TOU DETERMINE THE POSITIONING OR SIZE OF APERTURES	TICK! TATALOG OF CARRIES THE POUT TOXING OF COOPS IN		PID23 P2-40 DO YOU DETERMINE WHERE PROBES SHOULD BE HOUNTED IN	ON WAVEGUIDES OR CAVITY RESONATORS YOU WORK WITH	PIONS PART CONT. REMEMBER THE KIND OF EMERGY COUPLING USED	PIGZI PZ-38 ARE APERTURES (MINOOMS OR IRISES) USED ON MAYEGUIDES		,	PIOLO PROJUNE LOW POWER PROBES USED ON WAVESUIDES OR CAVITY	PIOIS P2-35 TRE HIGH POWER PROBES USED ON WAVEGUIDES OR CAVITY	SHE LINES IN MAVEGUIDES	REFER TO	PIOIS P2-33 DO YOU MEASURE THE TIME PHASE OF THE OR THE LINES IN	PIOTO PATAL DO TOO ONE OR REFER TO THE THAT PRANE OF FEAR TET OR	DIRECTION OF PROPAGATION, DIRECTION OF SECTION, OR	PIUI PZ-31 DO TOU USE THE RIGHT HAND RULE TO DETERMINE THE	DY-75K	TASK GROUP SUMMARY PERCENT MEMBERS PERFORMING
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AMPLIFIERS AND OSCILLATORS	MICROHAVE																												

PCT MERS ANSWRING YES FOR 326X2 DAFSC GRPS

GPSHJA PAGE J9

AF HUMAN RESOURCES LABORATORY AIR FORCE SYSTEMS COMMAND AF HUMAN RESOURCES LABORATORY AIR FORCE SYSTEMS COMMAND 35 0 4000004 00 240 2 2 4 240 90 0010 007700000 0 5 PC 0 - 8 0 2 - 2 - 2 GPSH3A PAGE 240 -000-00 0 0 100 . 0 0000 00 0 0 SPC 039 7 7 0 0 0 0 0 N 00 0 500 u ≠000co-40250 OR REFER TO PRINCIPLE OF ELECTRON VELOCITY TROUBLESHOOT KLYSTRONS OR TWT
REMOVE OR REPLACE COMPLETE KLYSTRON OR TWT
REWOVE OR REPLACE KLYSTRON OR TWT COMPONENTS
INSPECT PARAMETRIC AMPLIFIERS
ADJUST PARAMETRIC AMPLIFIERS MORK WITH UP-CONVERTER PARAMETRIC AMPLIFIERS PIOGY P3-31 DO TOU INSPECT MAGNETHONS
PIOGS P3-32 DO TOU CLEAN MAGNETRONS
PIOG6 P3-33 DO TOU CLEAN MAGNETRONS
PIOG6 P3-33 DO TOU TUNE MAGNETRONS
PIOG6 P3-35 DO TOU TUNE MAGNETRONS
PIOG6 P3-35 DO TOU TROUBLESHOOT MAGNETRONS
PIOG7 P3-37 DO TOU TROUBLESHOOT MAGNETRONS
PIOT7 P3-37 DO TOU REMOVE OR REPLACE COMPLETE MAGNETRON
PIOT7 P3-39 DO TOU GEMOVE OR REPLACE MAGNETRON
PIOT7 P3-39 DO TOU USE OR REFER TO THE OPERATING PRINCIPLES OF ò 0 TUNE KLYSTRONS OR TWT ELECTRICALLY TUNE KLYSTRONS OR TWT MECHANICALLY PERFORM OPERATIONAL CHECKS OF KLYSTRONS OR THO-CAVITY KLYSTRONS COLLECTOR PLATES
PIUJJ PJ-40 DO TOU USE OR REFER TO THE OPERATING PRINCIPLES
TWO-CAVITY KLYSTRONS CATCHER CAVITIES
PIUJ4 PJ-41 DO TOU USE OR REFER TO THE OPERATING PRINCIPLES
TWO-CAVITY KLYSTRONS CATCHER GRIDS DO YOU TUNE PARAMETRIC AMPLIFIERS DO YOU PERFORM OPERATIONAL CHECKS OF PARAMETRIC AMPLIFIER
PIU63 P3-30 00 TOL REMOVE OR REPLACE PARAMETRIC AMPLIFIER DO YOU TROUBLESHOOT PARAMETRIC AMPLIFIERS DO YOU REMOVE OR REPLACE COMPLETE PARAMETRIC DO YOU USE OR REFER TO RF LOSSES IN EXTERNAL USE OR REFER TO ELECTRON BUNCHING "ORK MITH TWO-CAVITY KLYSTRONS "ORK MITH TREE-CAVITY KLYSTRONS "ORK MITH TRAKELING-MAVE TUBES (THTI "OFK MITH TRAKELING-MAVE PARMETRIC INSPECT KLYSTRONS OR TWT PCT MBRS ANSWRNG TES FOR 326X2 DAFSC GRPS CORK BITH MAGNETRONS TASK GROUP SUMMARY PERCENT MEMBERS PERFORMING 22222 3333 20 100 100 COMPONENTS AMPLIFIERS CIRCUITRY P1639 P3-06 DO Y 000 20000 0 8 00 20 P1042 P3-09 P1043 P3-10 P1044 P3-11 P1054 P3-20 P1054 P3-21 P1056 P3-22 P1056 P3-24 P1057 P3-24 P1059 P3-24 P1060 P3-27 P1040 P3-07 P1061 P3-28 P1038 P3-05 47-Ed F3-17 P1050 P1051 P1052 94014 P1048 P1049 P1041 7 1047

PERCENT HEMBERS PERFORMING DY-TSK DY					- N N N O O O O - NO		- N C O - N O O O O O O O - 25	
P3-51 DO TOU USE OR REFER TO THE OPERATING PRINCIPLES REFLEX KLYSTRON RESONANT CAVITIES P3-52 DO TOU USE OR REFER TO THE OPERATING PRINCIPLES REFLEX KLYSTRON MAGNETIC COUPLING LOOPS	o o ~				N) - N	
REFLEX KLYSTRON FILAMENTS P3-54 DO TOU USE OR REFER TO THE OPERATING PRINCIPLES REFLEX KLYSTRON CATHODES P3-55 DO TOU USE OR REFER TO THE OPERATING PRINCIPLES	00	~ ~				v v	- c	
P3-54 DO YOU USE OR REFER TO THE OPERATING PRINCIPLES P3-57 DO YOU USE OR REFER TO THE OPERATING PRINCIPLES P3-57 DO YOU USE OR REFER TO THE OPERATING PRINCIPLES		0 0				o 6		
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TRAVELING-WAVE TUBES COLLECTORS P3-02 DO TOU USE OR REFER TO THE OPERATING PRINCIPLES TRAVELING-WAVE TUBES HAGNETS TRAVELING-WAVE TUBES HAGNETS		• 0			-	· e	-	0 0
TRAVELING-WAVE TUBES ATTENUATORS TRAVELING-WAVE TUBES ATTENUATORS TO THE OPERATION TASKS ON PARAMETRIC AMPLIFIER FERRITE	o -	0 N	0 0	0 -	0 -	0 0	o -	0 0

AF HUMAN RESOURCES LABORATORY AIR FORCE SYSTEMS COMMAND DIGITAL TO ANALOG CONVERTERS STORAGE DEVICES REGISTERS 240 0 0 0 0000000 5 7 ~ 240 . 0 . 0 240 0 2 0 7 240 0 0 0 00 0 -0 ~ 0 20 GPSH3A PAGE SPC 0 0 0 00 0000 240 0 0 0 0000 -00 500 0 0000000 0 0 0 0 0 0 0 PIIOO PI-67 DO YOU PERFORM TASKS ON PARAMETRIC AMPLIFIER VARACTOR DO TOU PERFORM TASKS ON PARAMETRIC AMPLIFIER REVERSE-PIIOI P3-68 DO YOU PERFORM TASKS ON PARAMETRIC AMPLIFIER FERRITE 41119 41-05 DO YOU TRACE THE DATA FLOW THROUGH LOGIC DIAGRAMS OF 41127 43-02 DO TOU COMPUTE OUTPUT VOLTAGES FOR ELECTROMECHAVICAL DIGITAL-TO-ANALOG (D/A) CONVENTERS FOR GIVEN IMPUT 41128 43-03 DO YOU USE OR REFER TO THE GENERAL RULE THAT THE COUNT IN ELECTROMECHANICAL DIGITAL-TO-ANALOG (D/A) 0 GIIZY GZ-08 DO YOU USE OR REFER TO VOLATILITY OF MEMORY SYSTEMS DO YOU PERFORM TASKS ON PARAMETRIC AMPLIFIER IDLER GIIIA GI-OT DO YOU DETERNIVE THE STATE OF EACH FLIP-FLOP OF A SHIFT REGISTER A SPECIFIED NUMBER OF SHIFT PULSES GIIIT GZ-OI DO YOU MORK WITH DIGITAL COUNTERS, REGISTERS, OR STORAGE DEVICES IN YOUR PRESENT JOB GII25 G2-UP DO YOU USE OR REFER TO LOGIC SYMBOL OF DELAT LINES TILS GOOT IN YOUR PRESENT JOB: DO YOU HORK WITH DIGITAL-TO-GILLS GI-DS OF TOU TRACE THE DATA FLOW THROUGH LOGIC DIAGRAMS REGISTERS
GIII3 Q1-04 DO YOU USE OR REFER TO LOGIC SYMBOLS OF STORAGE OR REFER TO DELAY LINES
OR REFER TO MAGNETIC CORES
OR REFER TO MAGNETIC DRUMS
OR REFER TO MAGNETIC TAPES
OR REFER TO ACCESS TIME OR SPEED OR OR REFER TO WORD CAPACITY OF MEMORY PIIOT P3-76 DO YOU PERFORM TASKS ON HAGNETS
41110 41-01 DO YOU USE OR REFER TO STORAGE REGISTERS
41111 41-02 DO YOU USE OR REFER TO SHIFT REGISTERS
41112 41-03 DO YOU USE OR REFER TO LOGIC SYNBOLS OF SHIFT ANALOG (D/A) CONVERTERS, ANALOG-TO-DIGITAL (A/D) COUPLING LOOPS P3-73 DO YOU PERFORM TASKS ON HEATER LEADS
P3-74 DO YOU PERFORM TASKS ON RESONANT CAVITIES
P3-75 DO YOU PERFORM TASKS ON CATHODES ANODES PCT MBRS ANSWRNG YES FOR 326X2 DAFSC GRPS Z Z 20 07-TSK DO YOU PERFORM TASKS YOU PERFORM TASKS TOU PERFORM TASKS OTHER TYPE OF REGISTERS TASK GROUP SUMMARY PERCENT HEMBERS PERFORMING AGE DEVICES
DO YOU USE O YOU USE SHIFT REGISTERS GIIZ3 GZ-07 DO YOU USE BATTERIES P1102 P3-69 DO TO STORAGE D 91118 92-02 DO V REGISTERS 00 00 00 SYSTEMS DIODES P1106 P3-73 0 P1099 P3-66 P3-71 P3-72 10-20 90-20 90-20 61121 07115 P1103 P1105 P1104

FORMING DY-TSK DY-TS	TASK GROUP SUMMARY	PERCENT MEMBERS PERFORMING	038 039 040 041 042 043 044 038 039 040 041 042 043 044	93-04 DO YOU COMPUTE ANALOG VOLTAGES FOR GIVEN BINARY 1 2 1 0 2 0 4	COUNTS IN ELECTRONIC DIGITAL-TO-ANALOG (D/A) CONVERTERS 0 0 0 2 1 0 0	ANALOG-TO-DIGITAL (A/O) CONVERTER CIRCUITS	ANALOG-TO-DIGITAL (A/O) CONVERTER CIRCUITS	TIME ANALOG TO PERFORM COMPARE FUNCTION TASKS ON VARIABLE 0 0 0 1 1 0	43-08 DO YOU PERFORM DIGITIZE FUNCTION TASKS ON VARIABLE DO DO 1 1	DI-DO DO YOU PERFORM DON'T REMEMBER WHICH FUNCTION TASKS 3 2 2 6 5	ON VARIABLE TIME ANALOG-TO-DIGITAL (A/D) CONVERTER Q3-10 DO YOU USE OR REFER TO SAMPLE FUNCTION OF A/D 2 0 2 3 5 0	CONVERTERS OF REFER TO HOLD FUNCTION OF A/D I D I I J	CONVERTERS Q3-12 DO YOU USE OR REFER TO COMPARE FUNCTION OF A/D 1 0 2 2 4	CONVERTERS Q3-13 DO TOU USE OR REFER TO DIGITAL FUNCTION OF A/D 3 2 3 4 8 5 7	Q3-14 DO YOU PERFORM ANY TASKS ON MECHANICAL ANALOG-TO- 2 0 2 3 5	RI-DI TOU MORK WITH PHANTASTRON CIRCUITRY IN YOUR I D I I D D D D	PRESENT JOB	CIRCUITS	42 RZ-02 DO TOU TRACE DATA FLOW THROUGH SCHWITT TRIGGER 2 2 3 2 4 5 4 4 SCHEMATIC DIAGRAMS	R2-03 DO YOU USE OR REFER TO SCHMITT TRIGGER LOGIC SYMBOLS 2 2 2 3 :5 5 6	CABLES CABLES	The state of the s	SI-UI IN TOUR PRESENT JOB DO TOU PERFORM ANY TASKS ON 38 40 40 29 61 43 66 VISUAL READOUT SYSTEMS	SI-UI IN TOUR PRESENT JOB DO TOU PERFORM ANY TASKS ON 38 40 40 29 61 43 66 56 VISUAL READOUT SYSTEMS SI-02 DO TOU PERFORM ANY TASKS ON NIXIE LIGHTS OR NIXIE 15 8 17 15 39 19 41 44 LIGHT DECODER SYSTEMS	SI-UI IN TOUR PRESENT JOB DO TOU PERFORM ANY TASKS ON 38 40 40 29 61 43 66 56 VISUAL READOUT SYSTEMS SI-DZ DO TOU PERFORM ANY TASKS ON NIXIE LIGHTS OR MIXIE 15 8 17 15 39 19 41 44 LIGHT DECOBER SYSTEMS SI-DZ DO TOU ANALZE MIXIE LIGHT DECOBER SYSTEMS USING 2 0 2 3 4 0 4 9 BOOLEAN ALGERMA	SI-OI IN TOUR PRESENT JOB DO TOU PERFORM ANY TASKS ON 38 40 40 29 61 43 66 56 VISUAL READOUT SYSTEMS SI-OZ DO TOU PERFORM ANY TASKS ON NIXIE LIGHTS OR NIXIE 15 8 17 15 39 19 41 44 LIGHT DECODER SYSTEMS SI-OZ DO TOU MANTZE NIXIE LIGHT DECODER SYSTEMS USING 2 0 2 3 4 0 4 9 BOCLEAN ALGEBRA SZ-OI DO TOU WORK WITH PHOTO TUBES IN TOUR PRESENT JOB 3 4 4 1 8 5 10 3	SI-OI IN TOUR PRESENT JOB DO TOU PERFORM ANY TASKS ON JA 40 40 29 61 43 66 56 VISUAL READOUT SYSTEMS SI-OZ DO TOU PERFORM ANY TASKS ON NIXIE LIGHTS OR NIXIE 15 8 17 15 39 19 91 49 LIGHT DECODER SYSTEMS SI-OZ DO TOU ANALYZE NIXIE LIGHT DECODER SYSTEMS USING 2 0 2 3 9 0 9 BOOLEAN ALGEBRA SZ-OI DO TOU MORK WITH PHOTO TUBES IN TOUR PRESENT JOB SZ-OI DO TOU WORK WITH PHOTO TUBES IN TOUR PRESENT JOB SZ-OI DO TOU WORK WITH PHOTO TUBES IN TOUR PRESENT JOB SZ-OI DO TOU WORK WITH PHOTO TUBES IN TOUR PRESENT JOB SZ-OI DO TOU WORK WITH PHOTO TUBES IN TOUR PRESENT JOB SZ-OI DO TOU WORK WITH PHOTO TUBES IN TOUR PRESENT JOB SZ-OI DO TOU WORK WITH PHOTO TUBES IN TOUR PRESENT JOB SZ-OI DO TOU WORK WITH PHOTO TUBES IN TOUR PRESENT JOB SZ-OI DO TOU WORK WITH PHOTO TUBES IN TOUR PRESENT JOB SZ-OI DO TOU WORK WITH PHOTO TUBES IN TOUR PRESENT JOB	SI-OU IN TOUR PRESENT JOB DO TOU PERFORM ANY TASKS ON JA 40 40 29 61 43 66 56 VISUAL READOUT SYSTEMS SI-OU DO TOU PERFORM ANY TASKS ON NIXIE LIGHTS OF NIXIE 15 8 17 15 39 19 91 49 LIGHT DECODER SYSTEMS SI-OU DO TOU MALTZE NIXIE LIGHT DECODER SYSTEMS USING 2 0 2 3 9 0 9 9 BOOLEAN ALGEBRA SZ-OU DO TOU MORK WITH PHOTO TUBES IN TOUR PRESENT JOB SJ-OU DO TOU MERSTENT JOB DO TOU WORK WITH CHOPPER CIRCUITS 1 2 1 0 1 0 2 0 0 0 0 0 0 0 0 0 0 0 0 0	SI-OI IN TOUR PRESENT JOB DO TOU PERFORM ANY TASKS ON JA 40 40 29 61 43 66 56 VISUAL READOUT SYSTEMS SI-OZ DO TOU PERFORM ANY TASKS ON NIXIE LIGHTS OF NIXIE 15 8 17 15 39 19 91 49 LIGHT DECODER SYSTEMS SI-OZ DO TOU MALTZE NIXIE LIGHT DECODER SYSTEMS USING 2 0 2 3 9 0 9 BOOLEAN ALGEBRA SZ-OI DO TOU MORK WITH PHOTO TUBES IN TOUR PRESENT JOB 3 9 9 1 8 5 10 3 SZ-OI DO TOU MEASURE EXCITATION PRESENT JOB 3 9 9 1 8 5 10 3 SJ-OZ DO TOU MEASURE EXCITATION PRESENT JOB 3 9 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	SI-OI IN TOUR PRESENT JOB DO TOU PERFORM ANY TASKS ON JA 40 40 29 61 43 66 56 VISUAL READOUT SYSTEMS SI-OZ DO TOU PERFORM ANY TASKS ON NIXIE LIGHTS OR NIXIE 15 8 17 15 39 19 91 49 LIGHT DECODER SYSTEMS SI-OZ DO TOU MALTZE NIXIE LIGHT DECODER SYSTEMS USING 2 0 2 3 9 0 9 9 BOOLEAN ALGEBRA SZ-OI DO TOU MORK MITH PHOTO TUBES IN TOUR PRESENT JOB 3 9 9 1 8 5 10 3 SZ-OI DO TOU MORK MITH PHOTO TUBES IN TOUR PRESENT JOB 3 9 9 1 8 5 10 3 SZ-OZ DO TOU MEASURE EXCITATION, PREQUENCIES 1 2 1 0 1 0 2 0 SJ-OZ DO TOU MEASURE EXCITATION, PREQUENCIES 0 0 0 0 0 0 0 0 0 0 SJ-OZ DO TOU USE OR REFER TO EXCITATION PREQUENCIES 0 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
O PHANTI	AIR FORCE STRIKES COM							0	0	4 12	5 9		•		•	0		•	SCHMITT TRIGGERS	29				‡ \$=					0000	00000

AF HUMAN RESOURCES LABORATORY AIR FORCE SYSTEMS COMMAND INFRARED LASERS SPC 045 0 0 000000000000 00000 2 4 243 0 00 0 00000 ; SPC 042 00000-000000 00000 GPSM3A PAGE 30 0 0 00000 0 0000-000 2000 500 5PC 038 00000 CIRCUIT OPERATION

SIIS7 S3-08 DO TOU USE ERROR SIGNAL DEVICES IN CONJUNCTION WITH

CHOPPER CIRCUIT OPERATION

SIIS8 S3-09 DO TOU USE COPERATION

CHOPPER CIRCUIT OPERATION

TIIS9 TI-01 DOES YOUR PRESENT JOB INVOLVE ANY TASKS DEALING WITH TOUR PRESENT JOB INVOLVE ANY TASKS DEALING WITH SIIS& S3-U7 DO TOU USE DETECTORS IN CONJUNCTION AITH CHOPPER TII63 TI-05 DO YOU OPERATE INFRANED SYSTEMS TII64 TI-06 DO YOU TROUBLESHOOT HIRE CONNECTIONS OF INFRARED SYSTEMS TILES TI-07 DO YOU TROUBLESHOOT MAJOR ASSEMBLIES OF INFRARED TII67 TI-09 DO YOU REMOVE OR REPLACE MAJOR ASSEMBLIES OF DO YOU CLEAN INFRARED SYSTEMS DO YOU ADJUST OR CALIBRATE INFRARED SYSTEMS STSTEMS
TILES TI-CE DO YOU TROUBLESHOOT JOWN TO INFRARED SYSTEM SON ERECTOR LENSES
SON OCULAR LENSES
ON CORRECTION LENSES
SON FILTERS
SON FILTERS TO FAR REGION TO INTERMEDIATE REGION TO NEAR HEGION TIIGH TI-ID DO YOU REMOVE OR REPLACE INFRARED SYSTEM DO YOU CLEAN LASER SYSTEMS
DO TOU OPERATE LASER SYSTEMS
DO YOU OPERATE LASER SYSTEMS
DO YOU TROUBLESHOOT MIRE CONNECTIONS OF ON TARGET BUTTONS ON PLANE MIRRORS TO AUSOLUTE ZERO GHAY BOUIES BLACK BODIES ABSORPTION SCATTERING TIIGO TI-02 DO YOU INSPECT INFRARED SYSTEMS PCT MBRS ANSWRNG TES FOR 326X2 DAFSC GRPS MICRON PERFORM TASKS DO TOU PERFORM TASKS PERFORM TASKS ERFORM TASKS PERCENT HEMBERS PERFORMING DO YOU INSPECT NFRARED SYSTEMS SYSTEMS DO YOU USE COMPONENT PARTS COMPONENT PARTS LASER SYSTEMS 30 333 0 00 0 00 0 LASERS T1184 T1-26 T1185 T1-27 T1161 71-03 11162 71-04 11-16 T1175 T1-17 T1-20 11-22 T1181 T1-23 F1182 T1-24 r1183 71-25 11-17 11-13 11-19 ---1-1 ----11111 11174 11180

CT MBRS ANSWANG YES FOR 326x2 DAFSC GRPS			GPSHJA PAGE	PAG	24	u		RFO	AIR FORCE SYSTEMS COMMAND
PERCENT MEMBERS PERFORMING									
DY-TSK	SPC	SPC	040	SPC	SPC	345	SPC	SPC	
TI192 T2-07 DO YOU TROUBLESHOOT MAJOR ASSEMBLIES OF LASER	0	0					0	6	
YOU TROUBLESHOOT TO COMPONENT PARTS	0	c				0			
YOU REMOVE OR REPLACE HAJOR ASSEMBLIES		0	D	0			0		
SYSTEMS T2-10 DO TOU REMOVE OR REPLACE COMPONENT PARTS OF L	0	0	0		0			0	
YOU USE OR DESER TO ALGOTROMS (A)	0	5		5					
T2-12 DO YOU USE OR REFER TO ELECTRON E	0 0	0 (0 0		0 0				
TZ-13 DO YOU USE OR REFER TO GROUND STATE	0	0				0	0	0	
T2-14 DO YOU USE OR REFER TO EXCITED ST	. 0					. 0			
T2-16 DO YOU USE OR REFER TO	0 0	0 0	0 0	0 0	0 0	0 0		0 0	
YOU USE OR REFER TO			0						
12-19 DO YOU USE OR	00	0 0	0 0	0 0	0 0	e c	0 0	0 0	
TZ-ZO DO YOU USE OR REFER TO	0	0	0	0	0			c	
1207 TA-27 DO TOU USE OR REFER TO MONOCHROMATIC		,							
12-23 DO YOU WORK WITH	0 0	0 (٥ (0 0	0 0	c (٥ ،	0 0	
MIRRORS	0	0	0	0	0	0	0	0	
IZIO TZ-25 DO YOU WORK WITH HALF SILVERED (92% REFLECTIVE)	0	0	0	0	0	0			
1211 T2-26 DO YOU WORK WITH HELICAL FLASHTUBES	0	0	0	0	0	0		•	
12 T2-27 DO YOU WORK WITH RUBY	0		0	0	0	0		0	
1214 TATAS DO TOU BORR SITH HEFICHTHENON	0 0	0 0	00	0 0		0 0	0 0	e c	
15 12-30 DO YOU WORK WITH XENON	0	0	0	0	0			0	
100 MORX WITH									
18 TZ-33 DO YOU HORK W	00	0 0	0 0	0 0	o c		0 0	0 0	
19 72-34 DO YOU WORK WITH GALLIU	0	0	0	0	0	0	0	0	
SENT SENT	1.8	15	-		40	38	4.8	47	
T3-02 DO YOU INSPECT DYST OR MAST		•	7	5	17	-	-	-	
T3-03 DO TOU CLEAN DUST OR HHST	u	0	u	2	•	•	12	•	DISPLAY TURES
TIRZY THEOS OF TOU OPERATE STATEMS THE CONTAIN DESIGN					£		212	5 2	
T3-06 DO YOU TROUBLESHOOT DYST OR MMST				• :	- -	- 6		- 0	
YOU REMOVE OR REPLACE DAY				.	,	5			
MAJOR ASSEMBLIES OR UNITS	- ,	,	,	_ ,		,	,		
THE VARIOUS ELEMENTS OF DVST		,	,						

PCT MBRS ANSWRNG YES FOR 326X2 DAFSC GRPS		6PSH	GPSH3A PAGE		9	٠ :	R FORC	AIR FORCE SYSTEMS COMMAND
TASK GROUP SUMMARY PERCENT MENBERS PERFORMING								
0 y = 15 k	SPC 038	SPC SPC 039 040	2 SPC	C SPC	SPC 043	240	5 P C	
TI228 T3-09 DO YOU PERFORM TASKS THAT MAKE IT NECESSARY TO NAME	0	0	0	_	0	0	•	
THE VARIOUS ELEMENTS	c	c			_	•	c	
TILLY THE TO TO THE FORM TANKS ON FLOOD GOAS	· -					. ~	•	
T3-12 DO YOU PERFORM TASKS ON ATTACH	•	0	0	0	0	3	٥	
T3-13 DO YOU PERFORM TASKS ON	٥-	00	o -	0 -	- •		o -	
TICAS 13-14 DO 100 PERFORM INSTANCE OF 103	15	,=		9 36	1	7	2.1	
TASKS	•	ď	•	•	•	7.3	•	PROGRAMMING
USE OR BEEFR TO	. 00	•	•	6 22		52	1.2	
UI-04 DO YOU USE OR REFER	7	~	7	7 10	. 5	٥	15	
UI-05 DO YOU USE OR REFER TO	•	7	3	2	2	1	•	
UI-06 DO YOU USE OR REFER TO	-	7	7			*	0	
USE OR REFER TO	,	co	_	7 20	-	71	- 2	
YOU USE OR REFER TO	m <u>-</u>	~ :	~ ~	7 28	2 2	3.0	2 5	
350 00 00 10-10	: :	: =		7 29	9 29		5.	
UI-11 DO YOU USE OR REFER TO	•	•	0	7 22	14	70	1.5	
UI-12 DO YOU USE OR REFER TO		=	*	5 29	9 24	35	13	
UI-13 DO YOU USE OR REFER TO 1	•	=	0	4 23	3 24	27	•	
UI-14 DO YOU PERFORM TASKS ON	*	~	s	3 10		_	•	
PERFORM TASKS ON	f	•	7	_	-	-	7	
UI-16 DO YOU PERFORM TASKS ON	•	•	•	3	15 14	8-	•	
UI-17 DO YOU PERFORM TASKS ON	•	~	s	11 2	5	* 1	•	
Z O	2	7	-	7			•	
UISSZ UI-19 DO YOU PERFORM TASKS ON CONTROL SECTIONS	*	•	s	7	12 10	15	•	
UI-20 DO YOU PERFORM TASKS ON	•	•	s	3 12		-	•	
UI-21 DO YOU PERFORM TASKS	٦	0		2	9	2	•	
UZ-01 DO YOU USE DECIBELS TO E	12	=	1.2	•	0	•	17	
ATTENDATION U1256 U2-02 DO YOU USE LOGARITHMS TO COMPUTE OUTPUT POWER IN	0	0	-	0	0	2	0	
DECIBELS U1257 U2-03 DO YOU USE LOGARITHMS TO COMPUTE ATTENUATION IN	0	0	_	0	0		0	DB AND POWER RATIOS
OECIBELS								

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NAG YES FOR 326X2 DAFSC GRPS S ANSWERING "YES" TO EPI ITE 326X2 CAREER LADDER. E FOLLOWING GROUPS WERE REQUE	GPSM3B PAGE 47	
IDENTITY - SPCO46 ALL ANN	CONTAINING	140 AMADERS.
IDENTITY - SPCONT ALL ANN	ONINI MINO	
IDENTITY - SPCO48 ALL AMM	CONTAINING	34 RESPERS.
IDENTITY - SPCORD ALL	CONTAINING	.
DENTITY - SPCOSO ALL ANN	CONTAINING	-
IDENTITY - SPCOSI ALL ANN	CONTAINING	٠.
SPECIAL SPECIAL ALL AND	CONTAINING	•

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	T GROUP SURERRY								
PER	PERCENT MEMBERS PERFORMING								
	0017	2 % C	240	SPC 048	240	SPC 050	2 8 C	SPC 052	SPC 053
		;		:	;	1		1	
	RESISTANCE CONTRACT CONTRACT VOLLAGES AND	•	001	*		4.5	9	•	
	MULTIMETER USES, ALTERNATING	•	100	66	41	47	•		**
	CURRENT, INDUCTORS, AND INDUCTIVE						•		
	CAPACITORS, CAPACITIVE REACTANCE, TRANSFORMERS,	9 9	7.3	•	•	37	9 \$	*	31
	AND MAGNETISM								
	RCL CIRCUITS, SERIES AND PARALLEL	13	=	=	•	0	52	-	•
	-								
	COUPLING, SOLDERING, AND RELAYS	93	8 7	96	88	63	ē	95	9.2
	MICROPHONES, SPEAKERS, AND OSCILLOSCOPES	12	13	•	•	83	6 9	83	9.0
	SEMICONDUCTOR DIODES, TRANSISTORS, AND TRANSISTOR	22	-	53	54	12	13	=	17
	ANPLIFIERS				l				
	SOLID STATE SPECIAL PURPOSE DEVICES, POWER	7	27	7	3.0	**	50	35	22
	SUPPLIES, AND OSCILLATORS						•		
	MULTIVIBRATORS, LIMITERS, CLAMPERS, AND ELECTRON TUBES	~	0	-	•	•	•	s	•
	ELECTRON TUBE AMPLIFIERS AND CIRCUITS, SPECIAL	-	0	0	~	89	75	9	***
	PURPOSE ELECTRON TUBES, HETEROUTHING, MODULATION,								
	AM SYSTEMS, FM SYSTEMS, AND NUMBERING SYSTEMS	27	27	22	;	7.3	7.5	7.3	7.2
	LOGIC FUNCTIONS, BOOLEAN EQUATIONS, AND COUNTERS	34	33	34	32	7	25	1 2	•
	TIMING CIRCUITS, USE OF SIGNAL GENERATORS,	36	0	37	5.0	28	99	52	22
	HOTORS, AND GENERATORS								
	METER MOVEMENTS, SATURABLE REACTORS,	76	87	75	,	74	•	75	7.2
	SINGLE SIDEBAND SYSTEMS, PULSE MODULATION	•	1	7	-	47	100	43	**
	SYSTEMS, AND ANTENNAS								
	TRANSMISSION LINES. MAVEGUIDES AND CAVITY	-	0	0	•	6 8	*	88	
	RESONATORS, AND MICROWAVE AMPLIFIERS AND OSCILLATORS								
	REGISTERS, STORAGE DEVICES, AND	-	1	=	54	•	•	0	•
	DIGITAL TO ANALDG CONVERTERS								
	PLANTASTROMS, SCHILLT TRIGGRS, AND	39	20	28	3.8		69	95	-
	CABLE FABRICATION)						
	INPUTIONTPUT DEVICES. PHOTO SENSITIVE	31	53	32	9 7	23	52	5.0	17
	DEVICES, AND SYNCHRONOUS VIBRATIONS								
	INFRARED, LASERS, AND DISPLAT TUBES	-	0	0	-	7.8	10	80	7.2
	DECCE 12 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		•	•	4				3.3

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HBERS PERFORMING SPC SPC SPC SPC SPC SPC SPC SPC	PERCENT NEEBERS PERFORMING
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TASK GROUP SUMMARY PERCENT MEMBERS PERFORMING									
	DRH I NG								
	01-15K	0 4 6 0 4 6	5 PC	SPC SP 048 04	SPC SP 049 05	SPC SP 050 050	SPC SPC 051 052	S 580	
33 A3-10 00 You USE		01	:	,	51	•	61	12 28	
THE OHMIC VALUE OF RESISTANCE.		•	^	•			•	9 25	
THE TOLERANCE OF RESISTORS. 35 A3-12 DO YOU USE RESISTOR COLOR	CODES	n	,	~				•	
THE FAILURE RAT	*	•	,	•		,		=	
	BE CONNECTE	:	•						
REPRESENT ANY OF	ABILEA OC. OC. OS. OK REFER TO THE SCHEDALLE STRUCTS REFERENCE OF THE COLLOWING COMPONENTS: BATTERY, ABILES DO YOU CALCUATE TOTAL PERSISTANCE FOR SEMIES	5 2	2			, -	· - 3	• •	
	RRENT FOR SER	=	2		77		2		
40 A3-17 DO YOU CALCULA	RESISTIVE CIRCUITS.	•	2	10	56	s		•	
SENIES RESISTIVE CIRCUITS.	SERIES RESIDITYE CIRCUITS. A3-18 DO YOU CALCULATE POWER DISSIPATION FOR	01	0		80	S		9 5	
SERRES RESISTIVE CIRCUITS.		•	2	•	35		•	•	
PARALLEL RESISTIVE CIRCUITS.	PARALLEL RESISTIVE CIRCUITS. A3-20 DO YOU CALCULATE TOTAL CURRENT FOR SERIES		2	=				•	
PARALLEL RESISTIVE CIRCUITS.		<u>*</u>	:	7 71	12	,		•	
SERIES PARALLEL 45 A3-22 DO YOU CAL	SERIES PARALLEL RESISTIVE CIRCUITS. 13-22 DO YOU CALCULATE INDIVIDUAL BRANCH CURRENTS FOR	2		7		s		•	
SERIES PARALLEL RESISTIVE CI	SERIES PARALLEL RESISTIVE CIRCUITS. 3-23 DO YOU CALCULATE POMER DISSIPATION FOR SERIES	•	0		51	s	•	•	
PARALLEL RESISTIVE CIRCUITS.	2		2	1.2	32	•		•	
RESISTIVE CIRCUITS.	RESISTIVE CIRCUITS. A3-25 DO YOU CALCULATE TOTAL CURRENT FOR PARALLEL	=	2		•	s.	٠	•	
49 A3-26 DO YOU CALCULA	RESISTIVE CIRCUITS. A3-26 DO YOU CALCULATE INDIVIDUAL VOLTAGE DROPS FOR	13	2	•				•	
50 A3-27 DO YOU CALCULATE INDIVID	PARALLEL RESISTIVE CIRCUITS. A3-27 DO YOU CALCULATE INDIVIDUAL BRANCH CURRENTS FOR	-	^	•				•	
	SIPATION FOR PARAI		0	٠ د	5			•	
RESISTINE CIRCUITS.									
81-02 00 400	REASONE RESIDIANCE.	-	30	° ~			- 0	2	
61-03 DO YOU	MEASURE VOLTAGE.	45	:			9 5 9	•	•	TIMETER
55 61-04 00 YOU REP	REPAIR A VOLTETER.	0 0	0 0	00	0 0	۰-	0 0	0 -	MULITARIEN UDED
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AF HUMAN RESOURCES LABORATORY
AIR FORCE SYSTEMS COMMAND 6PSH38 PAGE 54 PCT MBRS ANSWRNG YES FOR 326x2 DAFSC GRPS

Pr-156	5PC	SPC 047	SPC 048	5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	SPC SPC 050 051	SPC 052	SPC 053	
C2-23 DO YOU MEASURE DUIPUT VOLIAGE OF TRANSFORMERS TO	•	0	2	12	0	-	0	
FRANSFO	34	0	36	=	3 0	-	•	
STHBOLS FOR TRANSFORMERS. C2-25 DO YOU REFER TO THE MULTIPLE SECONDARY-WINDINGS	7	0	25	12	0	0	•	
SCHEMATIC SYMBOLS FOR TRANSFORMERS. C2-26 DO YOU REFER TO THE MULTIPLE TAP SCHEMATIC SYMBOLS	22	0	30	5.0	0	0	•	
FOR TRANSFORMERS. C 154 C2-27 DO YOU REFER TO THE CENTER TAP SCHEMATIC SYMBOLS	27	0	32	92	9	-	•	
	-	0	15	12	-	-	•	
TO THE IRON	•	0	23	•	0	-	•	
FOR TRANSFORMERS. 157 C2-30 DO YOU REFER TO THE COMBINATIONS OF THE ABOVE	*	•	23	*2	2	-	•	
SCHEMATIC SYMBOLS FOR TRANSFORMERS. 158 (2-3) DO YOU DETERMINE PHASE RELATIONSHIPS HETMERN		0	٠	90	3	7	٠	
ME R								
TANKERS YOU WORK WITH.	-	3	•	•	-	-	3	
TUBELS BOTTOU REFER TO OR USE THE GENERAL RULE THAT THE	5	0	*	12	0	-	0	
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DO YOU REMOVE OR REPLACE C	s	0	,	13	-		-	
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C3-01 DO TOU USE OR REPER TO PERMANENT "LENETS.	2	m	ŕ		5	•	0	-
USE OR REFER TO TEMPORARY HAGNE	52	•	5.2	2.1	•	•	•	
U USE OR REFER TO	•	0	0	5.6	-	-	0	
MATERIALS.							100	MAGNE I SH

ERCENT MEMBERS PERFORMING									
DY-15K	570	5PC	SPC	540 540	5PC	250	SPC 052	SPC	
75 C3-05 DO YOU USE OR REFER TO PERMEABILITY OF MAGNETIC	5	0	21	21	_	0	_	0	
C3-06 DO YOU USE OR REFER TO RESIDUAL MAGNETIS	22	:=	22	26	_	•	_	. 0	
ON REFER TO MAGNETIC	•	4	75	2.	G				
178 C3-08 DO YOU USE OR REFER TO WEBER'S THEORY OF	•	0	7		_		2	0	
179 C3-09 DO YOU USE OR REFER TO THE DOMAIN THEORY OF	•	0	•	12	_	6	_	0	
SO CU-TO DO YOU USE OR REFER TO MAGNETIC INDUCTION.	42	=	45	4		•		_	
C3-11 DO YOU USE OR REFER TO FLUX DENSITY.	27	7	30	26		0	2	0	
MAGNETIC POLES, LIKE BOLES REDE: AND UNLIKE POLES	47	ננ	:	47	•	-13	•	•	
THE LEFT HAND THUMB RULE TO	=	7	12		,			•	
34.	,	0	90		5				
K WITH NC. LN. OR	,	a	4	4	-		1	9	
184 DI-02 DY LUSE OR REFER TO VECTORS WHEN MORKING MITH	0	0	0	0		0		0	RCL CIRCUITS
	0	0	0	0	0	0	0	0	
IOM DI-ON DO TOU USE OR REFER TO SINE NIEN YORKING WITH	0	0	0	0	0	0	0	•	
USE OR REFER TO	0	0	•	0	0	0		•	
PO DI-UD DO TOU USE OR REFER TO TANGENT WHEN WORKING WITH RCL CIRCUITS.	0	0	0	0	0	c		c	
TI DI-OT DO TOU USE OR REFER TO WATTS WHEN WORKING WITH	0	0	0		2		~	o	
	0	0	0	0	0	0	0	c	
DI-UP DO TOU USE OR REFER TO MAXIMUM POWER (PM) WHEN	0	0	0	0	_	0	_	0	
TOTAL TO THE USE OF REFER TO AVERAGE POWER (PAVE) SHEN	0	0	0	0	0		0	•	
	0	0		0	0	0		0	
TO DO TOU USE OR REFER TO POWER FACTOR (PF) WHEN	0	0	•		0	c		0	
YOU USE O	_	0	-	0	_	0	_	•	
FORKING WITH RCL CIRCUITS.	-	6	-	0	_	0	~	•	
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TASK GROUP SUNNARY PERCENT MEMBERS PERFORMING								
DY-TSK	SPC 046	SPC 047	290	246	SPC 9	SPC SPC 051 052	2 SPC 2 053	
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201 DI-17 DO YOU USE OR REFER TO HALF POWER POINTS WHEN	0	0	0	0	-	0	0	
TOU USE ON REFER TO BRANDPASS A	0	0	0	0	-	•	0	
MORKING WITH RCL CIRCUITS.	0	0	0	0	-	•	0	
	-	0	-	•	-	0	0	
WITH RCL CIRCUITS. 205 DI-21 DO YOU DETERMINE VALUES OF TRIGONOMETRIC FUNCTIONS	0	0	0	0	0	•	0	
INPEDAN	6	0	0	0	-	0	0	
VECTOR DIAGRAMS FOR CIRCUITS. 207 DI-23 DO YOU CALCULATE TOTAL IMPEDANCE FOR CAPACITIVE	-	0	-	•	0	•	0	
CIRCUITS. 208 01-24 DO YOU CALCULATE PHASE ANGLES BETMEEN IMPEDANCE	-	0	-	0	0	9	0	
AND RESISTANCE IN CAPACITIVE CINCUITS. 209 DI-25 DO TOU CALCULATE TOTAL IMPEDANCE FOR SERIES RCL	-	0	-	٥	٥	0	0	
S FON SERIES	-	0	-	0	0	•	0	
PA) FOR SERI	-	0	0	•	0	9	0	
RCL CIRCUITS. 212 01-28 DO YOU CALCULATE TRUE PO*ER (PT) FOR SERIES RCL	-	0	0	•	0	•	0	
CIRCUITS. 213 D1-29 DO YOU CALCULATE POWER FACTORS (PF) FOR SERIES	-	0	0	•	0	0	0	
RCL CIRCUITS. DI-3G DO YOU CALCULATE TOTAL CURRENT FO	-	0	0	-	0		0	
FOR PARALL	-	0	0	~	0	•	0	
DO TOU CALCULATE TOTAL IMPEDANCE	-	0	-	0	0	0	0	
FOR PARALLEL H	0	0	0	0	0	0	0	
HHF TFRS.	•	a	,	•	-	c	a	
DI-15 DO YOU CHECK CAPACITORS USING SUE	7	0	2	-	. 0			
DI-36 DO YOU CHECK INDUCTORS USING	•	0	•	•	-	0		
227 DI-37 DO TOU CHECK INDUCTORS USING SUBSTITUTION.	- 0	0 0	- c	0 0	o -	0 0	o -	
THETANG PERI, AND PARPT FOR RESONANT CI	5	>	5	,	-			
CO TOU CALCULATE RESONANT FREQUENCY	o	0	0	0	-	0	0	
CIRCUITS.				,				

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COUPLING 5PC 053 ~ ~ 0 0 0 0 0 0 0 0 0 0 SPC 052 0 SPC 004400000 0 5PC 050 ~ SPC 048 0 SPC 047 90 000000000 -0 2 00 E 262 E1-02 DC TOU IDENTIFY ON SCHEMATIC DIAGRAMS AND RELATE TO THE ACTUAL CIRCUITRY THE COMPONENTS ASSOCIATED RELOTED TO TOU IDENTIFY ON SCHEMATIC DIAGRAMS AND RELATE COMPONENTS ASSOCIATED TO THE ACTUAL CIRCUITRY THE COMPONENTS ASSOCIATED TO THE ACTUAL CIRCUITRY THE COMPONENTS ASSOCIATED TO THE ACTUAL CIRCUITRY THE COMPONENTS ASSOCIATED TO THE ACTUAL CIRCUITS WHICH HAVE COMPONENTS WHICH PROPERTY THE COMPONENTS ASSOCIATED TO THE ACTUAL CIRCUITS WHICH HAVE COMPONENTS WHICH PROPERTY THE RC COUPLING FUNCTIONS.

E 266 E1-06 DO TOU TROUBLESHOOT CIRCUITS WHICH HAVE COMPONENTS WHICH PROPERTY COUPLING FUNCTIONS.

E 268 E1-09 DO TOU MORE WITH DIRECTLY COUPLED CIRCUITS.

E 268 E1-09 DO TOU WORK WITH CAPACITIVE—RESISTIVE COUPLED MORK ON LOW PASS FILTERS.
MORK ON HIGH PASS FILTERS.
MORK ON BANDPASS FILTERS.
MORK ON BON'T REMEMBER WHICH TYPE OF FILTER
WORK ON BAND-WEDECT FILTERS.
MORK WITH L-SECTION FILTER CONFIGURATIONS.
MORK WITH T-SECTION FILTER YOU WORK WITH PI-SECTION FILTER CONFIGURATIONS USED IN FILTERS TOUMORK WITH.
D 260 D3.22 DO YOU USE EQUATIONS OR FORMULAS TO DETERMINE
CAPACITANCE OR INDUCTANCE VALUES REQUIRED FOR SPECIFIC
E 261 E1-01 DO YOU WORK WITH COUPLING DEVICES ON YOUR PRESENT YOU WORK MITH. D3-21 ARE DON'T REMEMBER WHICH TYPE OF BASIC CIRCUIT DI-18 ARE MARLLEL RESONANT CIRCUITS USED IN FILTERS EI-11 DO YOU WORK WITH TRANSFOAMER COUPLED CIRCUITS. EI-12 DO YOU WORK WITH DON'T REMEMBER WHICH TYPE OF D3-17 DO YOU WORK WITH DON'T REMEMBER WHICH TYPE OF FILTER CONFIGURATIONS. CIRCUITS.
E1-10 60 TOU MORK WITH CAPACITIVE-INDUCTIVE COUPLED SERIES-PARALLEL CIRCUITS USED IN FILTERS D 258 D3-20 ARE SERIES RESONANT CIRCUITS USED IN FILTERS OR REPLACE COMPONENT PARTS PLT MBRS ANSWRNG YES FOR 326X2 DAFSC GRPS TASK GROUP SUMMARY PERCENT MEMBERS PERFORMING COUPLING CIRCUIT. TOU WORK MITH. 3333333 700 MORK D 257 D3-19 ARE 03-16 00 03-08 552 € 270 272 24.8 252 253 957 0 0 259 092 0 0

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TASK GROUP SUMMARY PERCENT MEMBERS PERFORMING								
X - 10	SPC SPC 046 047	2 SPC 7	S P C	SPC 050	5PC 051	5PC 052	5PC 053	
312 E3-18 DO YOU USE OR REFER TO OTHER RELAY SYMBOLS SCHEMATIC	5.8	40 57	7.1	7	•	•	2,	
SYMBOLS FOR RELAYS 313 E3-19 DO YOU CHECK ELECTRICAL CONTINUITY OF COILS BY	\$ 55	53 55	\$	•	•	2	52	
F 314 F1-01 IN YOUR PRESENT JOB. DO YOU PERFORM ANY TASKS DEALING	s	0	2	63	20	ş	5	
TITH MICROPHONES	-		•	*	9	3.6	36	
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F2-08 DO YOU REMOVE OR REPLACE	0			-	0	0	7	
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373 G1-20 DO TOU USE OR REFER TO PERMISSIBLE ENERGY LEVELS OF AN ORBITING ELECTRON	PARTICULAR SHELL OR ORBIT	OR RESER TO	G 371 GI-18 DO YOU USE OR REFER TO MEASUREMENTS OF REVERSE BIAS	6 370 61-17 DO TOU USE OR REFER TO POTENTIAL ENERGY OF AM	MOVING IN ORBIT	AS IN SUB	G 368 GI-15 DO TOU USE OR REFER TO DIODE NUMBERING SYSTEM, SUCH	USE OR REFER		365 GI-12 DO YOU USE OR REFER TO DIODE COLOR CODING	G 364 GI-II DO YOU USE OR REFER TO MEASUREMENTS OF FORWARD BIAS	EFFECTS OF DOPING ON CURRENT FLOW	:	G 362 GI-09 DO YOU IDENTIFY SEMICONDUCTOR DIODES AS OFFOSED TO	0 400	G 360 GI-DT DO YOU COMPUTE FORWARD OR REVERSE BIAS RESISTANCE FOR		01-06 DO	61-05 DO TOU	357 61-04 DO YOU	61-03 00	JOB -02 -0		F3-12 DO YOU USE OSCILLOSCOPES	SIGNALS AFTER FIRST ADJUSTING TH	1952 FULL DO TOU USE OSCILLOSCOPES TO REASURE AC VOLTAGE	MEASUREMENTS USING DELAY TIME MULTIPLIERS	F 350 F3-09 DO YOU USE OSCILLOSCOPES TO MAKE FREQUENCY OR TIME	-	DY-TUX	
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GPSHJB PAGE 61

PCT MBRS ANSWRNG YES FOR 326X2 DAFSC GRPS

TASK GROUP SUMMARY

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CAUSES OF PHASE DISTORTION

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470 63-43 DO YOU NEED TO KNOW THE DEGENERATIVE EFFECTS ON THE

CIRCUIT CAUSED BY CHANGING EMITTER RESISTANCE FOR

APPLIFIERS IN ORDER TO TROUBLESHOOT AMPLIFIER CIRCUITS

472 63-45 DO YOU TROUBLESHOOT OR REPAIR PARAPHASE AMPLIFIERS

473 63-45 DO YOU TROUBLESHOOT OR REPAIR PUSH-PULL AMPLIFIERS

474 63-45 DO YOU TROUBLESHOOT OR REPAIR PUSH-PULL AMPLIFIERS USE OR REFER TO VARACTORS
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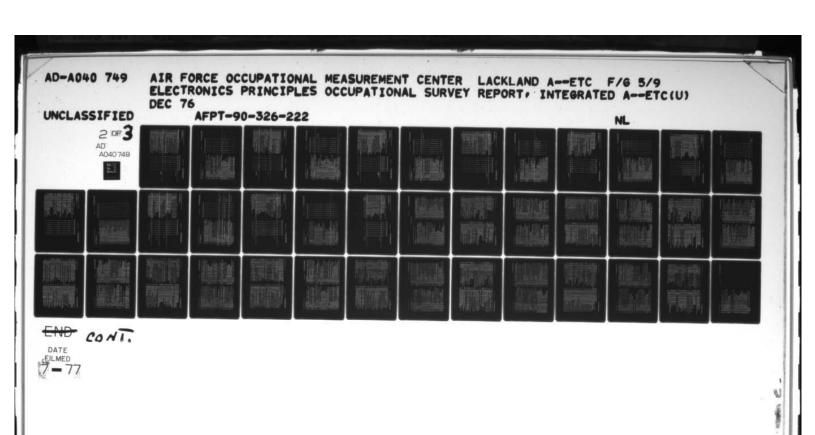
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CALCULATE PULSE RECURRENCE TIME (PRT) OR PULSE WHICH ARE SHORTER THAN A MALF-WAVE ACT AS CAPACITIVE LOADS 02-36 DO YOU MEASURE PULSE RECURRENCE TIME (PRT) OR PULSE VIDEO AMPLIFIERS
02-27 DO YOU PERFORM TASKS ON PULSE HODULATION SYSTEM
POWER VIDEO AMPLIFIERS
02-28 DO YOU PERFORM FASKS ON PULSE MODULATION SYSTEM
DOM*T REMEMBER WHICH PULSE HODULATION SYSTEM
SZ-29 DO YOU USE OR REFER TO PULSE RECURRENCE FREQUENCY O 911 02-37 DO YOU USE FORMULAS TO CALCULATE AVERAGE POWER OR 02-26 DO YOU PENFORM TASKS ON PULSE MODULATION SYSTEM PCT MBRS ANSWRNG TES FOR 326x2 DAFSC GRPS RECURRENCE FREQUENCY IPRE RECURRENCE FREQUENCY (PRF) TASK GROUP SUMMARY PERCENT MEMBERS PERFORMING 700 USE 700 USE 700 USE 200 02-32 02-33 05-20 02-35 02-31 00 405 903 0 900 4000 0 410 404 506 0

GROUP SUMMARY DYTISK DYTOU WORK WITH HERTZ ANTENNAS 10-14 DO YOU WORK WITH HERTZ ANTENNAS 10-14 DO YOU WORK WITH HERTZ ANTENNAS 10-15 DO YOU WORK WITH HERTZ ANTENNAS 10-10 DO YOU WORK WITH HERTZ ANTENNAS 10
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TRANSMISSION LINES 958 PI-04 DO YOU USE OR REFER TO LEAKAGE LOSSES IN		0	0	0	3.0	6.9		33
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962 PI-10 DO YOU WORK WITH FLEXIBLE	_	0	0	-	83	. 7	•	•
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964 PI-12 DO YOU TROUBLESHOOT TRANSHISSION L	-	0	0	~	7.8	88	1	•
IR CURRENT WAVER	0	0	0	0	15	-		•
P 966 PI-14 DO YOU SELECT APPROPRIATE TRANSMISSION LINES	0	0	0	0		•	•	•
TERMINATIONS TO ACHIEVE DESTRED WAVEFORMS				,				
THE STATE OF THE ON REFER TO SCHEMATIC STREETS FOR LINE	0	5	5	>	0	Ç	^	
STANDING MAVE	0	0	0	0	5.7	6,3	54 6	-
TRANSMISSION LINES P 949 PI=17 DO YOU CALCULATE STANDING WAVE RATIOS (SWR) OF	•	0	0	0	•	=	51	
TRANSMISSION LINES								
P 470 PIPER DO 100 PERFORM THE CALCULATIONS NECESSARY TO		0	0	0	~	•	~	0
LINES WHICH A	0	c	0	0	=	•	77	•
TO LOADS USING MATCHING TRANSFORMERS P 972 PI=20 DO YOU WORK WITH TRANSMISSION LINES WHICH ARE MATCHE	0 03	٥	٥	٥	•	•	-	•
F TRANSHI	0	0	0	0	-	0	-	0
FOR PARTICULAR JOBS WITHOUT REFERRING TO TECHNICAL DATA P 974 PI-22 DO YOU USE OR REFER TO THE TERM CHARACTERISTIC	c	0	c	0	•	•	7 7	
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TANSMISSION LINES			,	,		,		
P 977 PI-25 DO YOU USE OR REFER TO THE TERM VELOCITY FACTOR (K)	0	0	0	0	-		~	•
P 978 P1-24 DO TOU COMPUTE THE ELECTRICAL LENGTH OF TRANSMISSION	2	0	0	0	~	•	•	0
U -	0	•	0	0	•	2	- -	
ELECTRICAL LENGTH FOR GIVEN FREQUENCIES				,				
P VBU PI-ZB DO 100 USF OR REFER TO THE GENERAL RULE INAT AS THE		•			•		•	

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PERCENT MEMBERS PERFORMING									
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981 PI-29 DO YOU WORK WITH NONRESONANT (FLAT) TRANSMISSION	0	0	0	0		25	•	-	
YOU WORK EITH RESONANT TRANSMISSION LINES	0 0				25	25	25	25	
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DO YOU WORK WITH MAVEGUIDES		0		0	70	8.8	:	67	
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87 P2-04 DO YOU BEND WAVEGUIDES OR	0 0	0	0	0	-	38			COATT VEROUNTONS
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USE OR REFER TO MAGNETIC FIELD	0	0	0	0	_	0	_	a	
U USE OR REFER TO DUPLEXER FIELD	0	0	0	0	0	0	0	c	
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WALLS RANGE FROM . 2 TO .5 WAVELENGTHS IN SIZE, WITH . 35	3	0	0		•	-	,	0	
WAICH WAVEGUIDES ARE MADE OF						;			
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P2-44 ARE ROTATING JOINTS USED IN WAVEGUIDES OR CAVITY RESONATORS YOU WORK WITH P2-45 ARE DON'T REHEMBER THE KIND OF JOINTS USED IN MAYEGUIDES OR CAVITY RESONATORS YOU WORK WITH P2-45 DO YOU TUNE CAVITY RESONATORS USING CAPACITIVE TUNING P2-47 DO YOU TUNE CAVITY RESONATORS USING CAPACITIVE TUNING P2-49 DO YOU TUNE CAVITY RESONATORS USING DON'T REMEMBER P2-49 DO YOU TUNE CAVITY RESONATORS USING DON'T REMEMBER P2-49 DO YOU TUNE CAVITY RESONATORS USING DON'T REMEMBER P2-40 DO YOU TUNE CAVITY RESONATORS USING DON'T REMEMBER P2-40 DO YOU TUNE CAVITY RESONATORS USING DON'T REMEMBER P2-40 DO YOU WE SONATORS USING DON'T REMEMBER P3-40 DO YOU WE SONATORS USING DON'T REMEMBER P3-40 DO YOU WE SONATORS USING DON'T REMEMBER P3-50 DO YOU WE SONATORS USING DON'T REMEMBER P3-50 DO YOU WE SONATORS USING DON'T REMEMBER P3-50 DO YOU WE SONATORS USING DON'T REMEMBER P3-60 DO YOU WE SEER TO L'ERELECTROBE CAPACITANCE P3-60 DO YOU USE OR REFER TO L'ERD INJUCTANCE P3-60 DO YOU USE OR REFER TO L'ERD INJUCTANCE P3-60 DO YOU USE OR REFER TO L'ERD INJUCTANCE P3-60 DO YOU USE OR REFER TO L'ERD INJUCTANCE P3-60 DO YOU USE OR REFER TO L'ERD INJUCTANCE	0	0	0	•	1 9	ao	
RESONATORS YOU WORK WITH P2-45 ARE DON'T REHEABER THE KIND OF JOINTS USED IN WAY RECONT REHEABER THE KIND OF JOINTS USED IN WAY RELOAD TO THE RESONATORS YOU WORK WITH P2-46 DO YOU TUNE CAVITY RESONATORS USING CAPACITIVE TUNING P2-47 DO YOU TUNE CAVITY RESONATORS USING DON'T REHEMBER P2-48 DO YOU TUNE CAVITY RESONATORS USING DON'T REHEMBER P2-49 DO YOU TUNE CAVITY RESONATORS USING DON'T REHEMBER P3-40 DO YOU TUNE CAVITY RESONATORS USING DON'T REHEMBER P3-40 DO YOU TUNE CAVITY RESONATORS USING DON'T REHEMBER P3-40 DO YOU WE SELECTED TO SIGNALS IN CAVITY P3-50 DO YOU WEASURE THE FREQUENCY OF SIGNALS IN CAVITY P3-50 DO YOU WEASURE THE FREQUENCY OF SIGNALS IN CAVITY P3-50 DO YOU WE TUBES (THT), PARAMETRIC AMPLIFIERS, OR P3-62 DO YOU USE OR REFER TO LYTERELECTRODE CAPACITANCE P3-63 DO YOU USE OR REFER TO LYTERELECTRODE CAPACITANCE P3-64 DO YOU USE OR REFER TO LEAD INJUCTANCE P3-65 DO YOU USE OR REFER TO LEAD INJUCTANCE P3-67 DO YOU USE OR REFER TO LEAD INJUCTANCE	0	0	0	*	•		
MAYEGUIDES OR CAVITY RESONATORS YOU WORK WITH MAYEGUIDES OR CAVITY RESONATORS USING CAPACITIVE TUNING 0 0 0 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1	•	0	0	7.0	0.5		•
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P2-49 DO YOU TUNE CAVITY RESONATORS USING VOLUME TOWING P2-49 DO YOU TUNE CAVITY RESONATORS USING DOW'T REMEMBER P2-50 DO YOU WERE CAVITY RESONATORS USING DOW'T REMEMBER P2-50 DO YOU WESTER THE FREQUENCY OF SIGNALS IN CAVITY P2-50 DO YOU WESTER TO LEETRON TRANSIT TIME P3-03 DO YOU USE OR REFER TO LEAD INJUCTANCE P3-04 DO YOU USE OR REFER TO LEAD INJUCTANCE P3-05 DO YOU USE OR REFER TO LEAD INJUCTANCE P3-06 DO YOU USE OR REFER TO LEAD INJUCTANCE	0 0	5 C			o c		
P2-49 DO TOU TUNE CAVITY RESONATORS USING DOW'T REMEMBER 0 0 0 0 12 31 11 8 THE METHOD OF TUNING FESONATORS FES	0	0	0		0		
P2-50 DO TOU MEASURE THE FREQUENCY OF SIGNALS IN CAVITY 0 0 0 0 0 1 6 0 0 0 0 1 8 8 8 8 8 8 9 0 0 0 0 0 0 1 6 0 0 0 0 0 0 0 0 0 0 0 0	0	0	0	1.2	7	=	
RESONATORS P3-01 IN TOWN PRESENT JOB DO YOU WORK WITH KLYSTROWS. P3-02 IN TWAVE LINE WAVE TUBES (TAT'), PARAMETRIC AMPLIFIERS, OR P3-02 DO TOU USE OR REFER TO 14TERELECTRODE CAPACITANCE P3-03 DO YOU USE OR REFER TO LECTRON TRANSIT TIME 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0	0	0	-	•	0	0
TRAVELING WAVE TUBES (TMT), PARAMETRIC AMPLIFIERS, OR P3-02 DO TOU USE OR REFER TO LECTRON TRANSIT TIME D3-03 DO TOU USE OR REFER TO LEAD INDUCTANCE D 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	c	c	0			,	
P3-02 DO TOU USE OR REFER TO 14TERELECTRODE CAPACITANCE 0 0 0 0 0 1 0 0 3 P3-03 DO TOU USE OR REFER TO LEAD INDUCTANCE 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	•	,	ı			,	
P3-03 DO TOU USE OR REFER TO LEAD INCUCTANCE 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 (0	0	- 1	0	0	
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AF HUMAN RESOURCES LABORATORY

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FCT MBRS ANSWRNG YES FOR 326X2 DAFSC GRPS

PERCENT MEMBERS PERFORMING

CT MBRS ANSWRING YES FOR 326x2 DAFSC GRPS		9	6P SM 3B	39 V d	30	•	AIRF	AF HUHAN RESOURCES LABORATORY AIR FORCE SYSTEMS COMMAND
TASK GROUP SUMMARY Percent members performing								
Dy=15K	SPC 046	SPC 047	SPC 048	240	SPC 050	SPC 51	SPC SPC 052 053	US
PLUTS P3-42 DO YOU USE OR REFER TO THE OPERATING PRINCIPLES OF	0	0	٥	0	0	0	•	0
PIOTO PI-43 DO TOU USE OR REFER TO THE OPERATING PRINCIPLES OF	0	0	0	0	0	0	0	•
TWO-CAVITY RLYSTRONS DRIFT SPACES	0	0	0	0	0	0		0
TWO-CAVITY KLYSTRONS BUNCHER GRIDS P3-45 DO YOU USE OR REFER TO THE OPERATING PRINCIPLES	0	0	0	0	0	٥	٥	9
THO-CAVIT'S KLYSTRONS BUNCHER CAVITIES PIGTO P3-46 DO TOU USE OR REFER TO THE OPERATING PRINCIPLES OF	0	0	0	0	-		0	0
TWO-CAVITY KLYSTRONS CONTROL GRIDS PIUBO P3-47 DO YOU USE OR REFER TO THE OPERATING PRINCIPLES OF	0	0	0	0	0	0	0	9
2 2	0	0	0	0	0	0	0	0
REPELLER IREFLECTOR) PLATE OR REFER TO THE OPERATING	0	0	0	٥	0	0	0	0
GRIDS OR REFER TO	0	o	c	0	0	0	0	0
GRID CAVI	0	0	0	0	0	0	0	0
REFLEX KLYSTRON RESONANT CAVITIES P3-52 DO YOU USE OR REFER TO THE OPERATING		0	0	0			0	0
REFLEX KLYSTROW MAGNETIC COUPLING LOOPS	0	0	0	0	0	. 0	0	0
REFLEX KLYSTROW FILAMENTS P3-54 DO YOU USE OR REFER TO THE OPERATING PRINCIPLES	0	0	0	0	0	0	0	0
REFLEX KLYSTRON CATHODES P3-55 DO YOU USE OR REFER TO THE OPERATING PRINCIPLES	D	0	0	0	0	•	5	0
REFLEX KLYSTRON OUTPUT LEADS PJ-54 DO YOU USE OR REFER TO THE OPERATING PRINCIPLES	٥	0	0	0	-	0	_	0
TRAVELING-WAVE TUBES FILAMENTS P3-57 DO YOU USE OR REFER TO THE OPERATING	د	0	0	0	-	٥	-	0
OPERATING	0	0	0	0	0	•	0	0
TRAVELING-WAVE TUBES HODULATOR GRIDS PIO92 P3-59 DO YOU USE OR REFER TO THE OPERATING PRINCIPLES OF	0	0	0	0	0	0	0	0
OPERAT	0	0	0	•	-	0	-	0
OPERATING	0	0	0	0	0	٥	ь	0
TRAVELING-WAVE TUBES COLLECTORS P3-62 NO YOU USE OR REFER TO THE OPERATING PRINCIPLES	c	0	0	0	-	•	-	0
TRAVELING-WAVE TUBES HAGNETS P3-63 DO YOU USE OR REFER TO THE OPERATING PRINCIPLES	0	0	0	0	-		0	0
TRAVELING-MANE TUBES ATTENUATORS PIGG? P3-64 DO YOU PERFORM TASKS ON PARAMETRIC AMPLIFIER FERRITE	0	۰	0	۰ ۵	0	•		0
CIRCULATORS		•	c	•	•	c	-	0

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PCT MBRS ANSWRNG YES FOR 326x2 DAFSC GRPS		•	GPSHJB	PAGE	87		^	FOR	AIR FORCE SYSTEMS COMMAND
TACK COALL CITATION									
PERCENT REIBERS PERFORMING									
DY=TSK	SPC	SPC	940	950	050 050	SPC	SPC	550	
PIO99 P3-66 DO YOU PERFORM TASKS ON PARAMETRIC AMPLIFIER IDLER	6	0	0	0	0	Þ	0	0	
PERFORM TASKS ON PARAMETRIC AMPLIFIER	0			0		0	c	0	
TASKS ON PARAMETRIC AMPLIFIER	0	0	0	0	•		•	•	
PUI-PUI TO YOU DEBTOOK THESE OF BARANTED AND THE TER			5						
BIAS BATTERIES	c				•	c		•	
1103 P3-70 DO YOU PERFORM TASKS ON ANODES	0	0	0	0	0			. 0	
PITOS PITOS DO TOU PERFORM TASKS ON COUPLING COOPS	o c	c c	o c	0 0	0 0	b c	0 0	0 0	
1104 PJ-73 DO YOU PERFORM TASKS ON	0	0	0	0	0	0	0	0	
P3-74 DO YOU PERFORM TASKS ON	0	0	0	0	0	0	0	0	
PILOS PI-76 DO TOU PERFORM TASKS ON MAGNETS	0 0	0 0	0 0	0 0	0 0	o c	0 0	0 0	
QI-DI DO YOU USE OR REFER TO	-	0	٥	u	2	c	2	٠	
OR REFER TO			. –		. –	. 0	-		
REGISTERS									REGISTERS
						, ,			
SHIFT REGISTERS					-	5	-		
OTHER TYPE OF REGISTERS	,								
GIII 6 RI-07 DO TOU DETERMINE THE STATE OF EACH FLIP-FLOP OF A SHIFT REGISTER AFTER A SPECIFIED NUMBER OF SHIFT PULSES	-	0	-		-	0	0	·	
GILLY 42-01 DO TOU WORK WITH DIGITAL COUNTERS, REGISTERS, OR	5	0	s	•	5	•	5	u	
42-02 DO YOU USE OR	0	0	0	0	-	c	~	0	
22-03 DO YOU USE OR REFER TO MAGNETIC	_	c	0		-	0	-	0	STORAGE DEVICES
Q2-05 DO YOU USE OR REFER TO	, -	00	• 0	- - -	0 0	00	00	00	
92-06 DO YOU USE OR REFER	~	0	_	•	-	•	-	0	
GITZS GZ-UT DO TOU USE OR REFER TO WORD CAPACITY OF MEMORY	2	0	-		-	0	0	~	
SYSTEMS		,					,		
GIIAT GA-CO DO TOU USE OR REFER TO LOGIC STMBOL OF DELAT LINES	. -	0 0	o -	۰ -	o -			o •	
43-01 IN TOUR PE		1	•	2		0	5	-	
ANALUG (D/A) CONVERTERS, ANALOG-TO-DIGITAL (A/D)		,	0		-	5	0		DIGITAL TO
DIGITAL-TO-ANALOG (D/A) CONVERTERS FOR GIVEN INPUT				H					ANALOG CONVERTERS
GIIZO AJ-OJ DO YOU USE OR REFER TO THE GENERAL RULE THAT THE	_	0	-	_	0	. 0	0	0	

PHOTO SENSITIVE DEVICES AF HUMAN RESOURCES LABORATORY AIR FORCE SYSTEMS COMMAND SYNCHRONOUS VIBRATIONS CABLE FABRICATION (CHOPPER CIRCUITS SCHMITT TRIGGERS INPUT/OUTPUT DEVICES PHANTASTRONS 5PC 053 . ~ SPC 052 SPC 051 5PC 050 0 \$ GPSM38 PAGE 7 6 -129 93-04 DO YOU COMPUTE ANALOG VOLTAGES FOR GIVEN BINARY
COUNTS IN ELECTRONIC DIGITAL—TO-ANALOG (DZA) CONVERTERS
130 43-05 DO YOU PERFORM SAMPLE FUNCTION TASKS ON VARIABLE TIME
ANALOG=TO-DIGITAL (AZD) CONVERTER CIRCUITS
131 93-06 DO YOU PERFORM COMPARE RURCITON TASKS ON VARIABLE TIME
ANALOG=TO-DIGITAL (AZD) CONVERTER CIRCUITS
132 93-07 DO YOU PERFORM COMPARE FUNCTION TASKS ON VARIABLE
TIME ANALOG—TO-DIGITAL (AZD) CONVERTER CIRCUITS
131 93-09 DO YOU PERFORM DIGITIZE FUNCTION TASKS ON VARIABLE
134 93-09 DO YOU PERFORM DIGITIZE FUNCTION TASKS ON VARIABLE
134 93-09 DO YOU PERFORM DIGITIZE FUNCTION TASKS
ON VARIABLE TIME ANALOG—TO-DIGITAL (AZD) CONVERTER
ON VARIABLE TIME ANALOG—TO-DIGITAL (AZD) CONVERTER
ON VARIABLE TIME ANALOG—TO-DIGITAL (AZD) CONVERTER BUOLEAN ALGEBRA STI49 52-01 DO YOU 40FR BITH PHOTO TUBES IN YOUR PRESENT JUB STISU 53-01 IN YOUR PRESENT JOB DO YOU WORK AITH CHOPPER CIRCUITS SCHEMATIC DIAGRAMS
RING R2-03 DO YOU USE OR REFER TO SCHMITT TRIGGER LOGIC SYMBOLS
RIING R3-01 IN YOUR PRESENT JOB DO YOU FABRICATE MULTICONDUCTOR MT JOB PRESENT JOB DO TOU WORK WITH SCHMITT TRIGGER DO YOU MEASURE EXCITATION FREQUENCIES
DO YOU MEASURE VOLTAGE-CURRENT PHASE RELATIONSHIPS
DO YOU USE OR REFER TO EXCITATION FREQUENCIES
DO YOU USE OR REFER TO VOLTAGE-CURRENT PHASE VISUAL READOUT SYSTEMS SIL47 SI-02 DO YOU PERFORM ANT TASKS ON NIXIE LIGHTS OR NIXIE LIGHT DECODER SYSTEMS 43-14 DO YOU PERFORM ANY TASKS ON MECHANICAL ANALOG-TO-SII48 SI-03 DO TOU ANALYZE NIXIE LIGHT OECODER STSTEMS USING HILMS R3-02 DO YOU FABRICATE COAKIAL CABLES SITME SIMUT IN YOUN PRESENT JOB DO YOU PERFORM ANY TASKS ON 43-13 DO YOU USE OR REFER TO DIGITAL FUNCTION OF A/D CIRCUITS RII42 RZ-UZ DO YOU TRACE DATA FLOW THROUGH SCHMITT TRIGGER 43-12 DO YOU USE OR REFER TO COMPARE FUNCTION OF A/D 14/D) CONVERTERS TOU WORK WITH PHANTASTRON CIRCUITRY IN YOUR ON VARIABLE TIME ANALOG-TO-DIGITAL IAZDI CONVENTEN Q1-10 DO YOU USE OR REFER TO SAMPLE FUNCTION OF AZD RELATIONSHIPS S1-de DO Tou USE SERVOS IN CONJUNCTION WITH CHOPPER 93-11 DO YOU USE OR REFER TO HOLD FUNCTION OF A/D PCT MBRS ANSWRNG TES FOR 326X2 DAFSC GRPS 07-TSK TASK GHOUP SUNMARY PERCENT MEMBERS PERFORMING CIRCUIT OPERATION CONVERTERS CONVERTERS CONVERTERS CONVERTERS DIGITAL RI140 RI-01 50 RII41 RZ-UI IN CABLES 51151 53-02 53-03 51-05

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TASK GROUP SUMMARY		6	6P5H3B	PAGE	89		<u>.</u>	RFOR	AIR FORCE SYSTEMS COMMAND
PERCENT MEMBERS PERFORMING									
DY-15K	04°C	SPC	5PC	SPC	SPC 050	SPC	SPC 052	SPC	
S1156 S3-07 DO YOU USE DETECTORS IN CONJUNCTION WITH CHOPPER	~	,	~	0	0	0	0	0	
JSO USE	~	,	2	0	0	0	0	0	
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DOES YOUR PRESENT JOA		-		-	*	6	1	3	
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11-04 00	0 0	0 0	0 0	0 0	-7	25	- 0	= ;	
TI-05 DO YOU OPERATE INFRARED SYSTEMS	0	0	0	0	74	69	76	•	
11-06 DO	0	0	0	0	74	75	75	6.9	
TILES TI-07 DO TOU TROUBLESHOOT HAJOR ASSEMBLIES OF INFRARED	0	0	0	0	62	6.9	65	50	
TILLOG TI-UB DO YOU TROUBLESHOOT DOWN TO INFRARED SYSTEM	0	0	0	0	21	<u>د</u>	60	22	
COMPONENT PARTS	,	,	,		:	7,	:	:	
INFRARED SYSTEMS	c							•	
TILLE TI-10 DO YOU REMOVE OR REPLACE INFRARED SYSTEM	0	0	0	0	-	25	-	=	
DO YOU USE OR REFER T	o	0	0	0	·	•	s.	•	
1175 11-12 DO YOU USE OR REFER TO	0	0	0	0	S		S	•	
TI-13 DO YOU USE OR REFER TO	. 0	0	0			: =			
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TI-16 DO YOU USE OR REFER TO BLACK BOUL	. 0		0	. 0	-	25	• •		
DO YOU USE OR REFER TO S	0 0	0	0	0 0	,	. :	•	= ,	
TI-19 DO YOU USE OR REFER TO	0	0	0	0	16	*	-	=	
TI-21 DO TOU PERFOR	0 0	o 0	0 0	00	~ 0	00	س د	5 0	
TI-22 DO YOU PERFORM TASKS ON	0	0	0	0	0	0	0	0	
TI-23 DO YOU PERFORM TASKS ON	. 0	0	0	0			0		
TI-25 DO YOU PERFORM TASKS OF	o c	5 C	o c	.	r c		, c	. c	
26 DO TOU PERFORM TASKS ON	0 0	00	0	0 0		•		0	
TI-27 DO YOU PERFORM TASKS ON PLANE MIRRORS	0	0	0	0	0	0	0	0	
DOES YOUR PRESENT JOB INVOLVE	0	0	0	0	0	0	0	0	
YOU INSPECT LASER S	0	0	0	0	0	c	0	0	
12-03 DO YOU CLEAN LASER SY	0	0	0	0	0	0	0	0	LASERS
12-04 DO YOU OPERATE LASE	0	0	0	0	0	0	0	0	
1190 TZ-05 DO YOU OPERATE LASER SYST	0	0	0	0	0	0		0	
YOU TROUBLESHOOT .	0	0	0	0	0	0	0	c	

AF HUMAN RESOURCES LABORATORY

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TASK GROUP SUMMARY
PERCENT MEMBERS PERFORMING

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DB AND POWER	0	0	c	0	0	0	0	0	U1756 UZ-02 DO TOU USE LOGARITHMS TO COMPUTE OUTPUT POWER IN
	**		•						ATTENUAT
	3		-	200			1		TO THE SECTION OF THE PROPERTY
	c	0	D	0	0	0			UI-21 DO YOU PERFORM TASKS ON
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	0	0	0	0	0	0	-	,	UI-17 DO YOU PERFORM TASKS
	0	c	c	0	<u>۔</u>	0	-		UI-16 DO YOU PERFORM TASKS ON
	o	0	o	0	0	0		-	UI-15 DO YOU PERFORM TASKS ON
	c	-	0	_	0		9	•	U1-14 DO YOU PERFORM TASKS ON
	a	~	0	-	3	7 6			USE OR REFER TO
	0	_	0	_	<u>۔</u>	7 3	•		UI-12 DO YOU USE OR REFER TO
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	w	-	0	_			_		OR REFER TO
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PROGRAMMING	0	_	•	_	•		_		UI235 UI-02 DO YOU USE OR REFER TO DECIMAL SYSTEMS
	u	2	•	_	•	7 3			ULZ34 UI-UI IN TOUR PRESENT JOB+ DO YOU PERFORM ANY PROGRAMMING
	0	0	0	0			0	0	73-14 DO
	0	•	0	0	0		0	0	DO TOU PERFORM TASKS ON
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									THE VARIOUS ELEMENTS
	0	-	0	-	0	0		,	TIAZO TI-09 DO YOU PERFORM TASKS THAT LAKE IT MECESSARY TO NAME
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INVENTORY
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-	MESISIANCE		A 32	A3-09 00 YOU IDENTIFY OR CLASSIFY THE RESISTORS YOU
	-01 00	AI-01 DO YOU USE AN INSTRUMENT, SUCH AS HETER OF AN		MORK WITH AS CARBON, FIXED WIRE, SLIDE TAP, RHEOSTAT OR
	SCILLO	OSCILLOSCOPE: IN WHICH IT IS NECESSARY TO AMPLIFY OR		POTENTIOMETER.
	TTENUA	ATTENUATE A VOLTAGE, RESISTANCE, ETC., BY POWERS OF 13.	7	A3-10 DO YOU USE RESISTOR COLOR CODES WHICH INDICATE
A 2 A	-02 00	AI - 02 00 YOU USE A PUBLICATION, SUCH AS A TECHNICAL		THE OHMIC VALUE OF RESISTANCE.
	700	TO MULTIPLY OF CIVING A A DOWER OF TO BEFORE		THE TOLERANCE OF BESINGS
	NAD DO	YOU CAN APPLY THE INFORMATION FROM THE PUBLICATION IN A	4 35	A3-12 00 YOU USE RESISTOR COLOR CODES WHICH INDICATE
3	SEFUL	USEFUL MAY ON THE JOB.		THE FAILURE RATE OF RESISTORS.
	-03 00	AI-03 DO YOU REARRANGE AND SOLVE FORMULAS OR FQUATIONS.	A 36	A3-13 DO YOU MAKE DECISIONS IN WHICH YOU HUST DETERMINE
		YOU FIND THE SOUARE		HOW TWO UR MORE BATTERIES MUST BE CONNECTED TOGETHER TO
s		YOU SOLVE FOR AN UNKNOWN GUANTITY.		ACHIEVE A SPECIFIC VOLTAGE.
		TO LOGARITHES.	A 37	ASTITUTE OF THE SERVICE SCHEMATIC STREELS WHICH
4	A1-07 30	DO TOU USE LOGARITHM TABLES IN ANY TIPE OF		KEPRESENT ANY OF THE FOLLOWING COMPONENTS: BATTERT.
•	CALCULATIONS			FUSE, CONDUCTOR, LAMP OR SWITCH.
¥ 0	0000	Allege to work the August 10 Equations.	7 38	A3-15 DO TOU CALCULATE TOTAL RESISTANCE FOR SERIES
	200	A STATE OF THE MANUAL WATER AND THE MANUAL TO STATE OF THE STAT	,	RESIDENCE CINCOLLS.
	2 20 5			ASTISTANCE CIRCUITS.
A 10 A1	-10 00	AI-IG DO YOU MORK MITH VECTOR QUANTITIES, SUCH AS ADDING	0 + 1	A3-17 DO YOU CALCULATE INDIVIDUAL VOLTAGE DROPS FOR
	R SUBT	OR SUBTRACTING TWO VECTORS.		SENIES RESISTIVE CIRCUITS.
A 11 A	-11 00	AI-11 DO YOU WORK WITH THIGONOMETRIC FUNCTIONS SUCH AS		43-18 DO YOU CALCULATE PORER DISSIPATION FOR
	INE . C	SINE, COSIME, OR TANGENT.		SERIES RESISTIVE CIRCUITS.
A 12 A1	-15 00	AI-12 DO TOU DETERMINE APEAS OF PLANE FIGURES, SUCH AS	7 4 7	A3-19 DO YOU CALCULATE TOTAL RESISTANCE FOR SERIES
•	REAS 0	3		PARALLEL RESISTIVE CINCUITS.
	-13 00	YOU SOLVE OR USE	7	A3-20 DO YOU CALCULATE TOTAL CURRENT FOR SERIES
		TOU SOLVE ON USE PR		PARALLEL RESISTIVE CINCUITS.
15 42	AZ-01 D0	YOU USE THE TERM	,	A3-21 DO YOU CALCULATE INDIVIDUAL VOLTAGE DROPS FOR
		TO OSE THE TEXA EL		SERIES TANALLE RESISTING CINCOLIST
		TOU USE THE TERM ON	4 45	A3-22 DO TOU CALCULATE INDIVIDUAL BRANCH CURRENTS FOR
7 8		TOU USE THE TERM IC	1	SERIES PARALLEL RESISTIVE CIRCUITS.
	A 2-05 DO	YOU USE THE TERM DINE.	4	A3-73 DO TOU CALCULATE PORER DISSIPATION FOR SERIES
٠.		THE TALL THE TOTAL		מישור בר אליום וויל לויליום ווילים היהיה שלים היהיה הי
•		70.1 1157 727		ASSESSMENT OF THE CONTRACT OF THE PROPERTY OF THE PERTY OF THE PERSON OF
		750 000		The state of the s
	00 10-14	360 004	•	ASSESS DO TOU CALCULATE TOTAL CURRENT FOR PARALLEL
		2		יייייייייייייייייייייייייייייייייייייי
25 43	13-02 00		4	A3-26 DO TOU CALCULATE INDIVIDUAL VOLIMER DROPS FOR
		2		בשישורוני שניים ויני ויינים וי
•		200	V 50	A3-27 DO TOU CALCULATE INDIVIDUAL BRANCH CURRENTS FOR
	3-05 00	20		PARALLEL RESISTIVE CIRCUITS.
1 29 A3		TOO MEMONE OR REPLA	1 5 1	A3-28 DO TOU CALCULATE POMER DISSIPATION FOR PARALLEL
30 43	43-07 00	DO YOU USE OR REFER TO TEMPERATURE COEFFICIENTS		RESISTIVE CIRCUITS.

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INVENTORY (DUTY/TASK TITLES)

HULTIMETER USES, ALTERNATING

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	C149 C2-22 30 YOU MEASURE HESISTANCE OF TRANSFORMER WINDINGS	TO DETERNINE MHETHER A TRANSFORMER HAS A STEP-	0110			0 1510		TO SCHEMETT SYMBOLS FOR TRANSFURMERS.	(153	FOR TRANSFORMERS.	C154 C2-27 DO YOU REFER TO THE CENTER TAP SCHEMATIC SYMBOLS	FOR THANSFORMERS.	(ED). FOR TRANSFORMERS.	0 9513		C157 C	6512	JOB. SECONDARY AND PRIMARY		CLOST CALLES ON YOU DELENGTHEN TO THE LITTE OF CONF. IN	0100			CIAL C2-34 DO YOU USE OR REFER TO STEP-UP OF STEP-DOWN	C162 C	,	COUPLING C163 C2-36 DO YOU CALCULATE CURRENT RATIOS FOR TRANSFORMERS	1910	21146		(167	C168 C2-41 DO YOU TROUBLESHOOT 3 PMASE TRANSFORMERS.	C169 C2-42 DO YOU REMOVE OR REPLACE COMPLETE 3 PHASE	STREET STATE A TOLICIA SO TVOTES DOT 00 12-10 05-10		C171 C3-01 DO YOU USE OR	C172 C3-02 DO YOU	MATERIALS.	C174 C	HATERIALS.	DINGS C175 C3-05 DO YOU USE OR REFER TO PERMEABILITY OF MAGNETIC
DOS INCAIDATION DE LITEST	CAPACITORS IN PARALLEL.		CAPACITORS IN SERIES-PARALLEL CIRCUITS.	CURRENT DOES NOT ELOW THROUGH APPACITORS. IT	APPEARS TO DO 50.		CURRENT LEADS VOLTAGE IN	CITY CITZE DO TOU USE OF REFER TO THE GENERAL MULE THAT CAPACITIVE REACTANCE IS INVERSELY PROPORTIONAL TO		U CALCULATE CAPA	C1-30 00 700 NORK WITH	(VARIABLE).	CI-32 DO YOU WORK WITH FLEC	C1-33 DO TOU WORK WITH	C1-34 DO YOU MORK WITH	DO YOU WORK WITH CERA	CI-36 GO TOU MORK WITH	J	CZ-02 DO TOU INSPECT TRANSF	2 2	62-05 00	CZ-06 DO YOU REMOVE OR REPL	CI34 C2-07 DO TOU REMOVE OR REPLACE TRANSFORMER PARTS.	AS TIE PRIMARY MINOLOG.			C137 C2-10 DO YOU REFER TO OR USE THE COEFFICIENT OF COUPLING	CIBB CZ-II DO YOU CALCULATE TURNS RATIOS FOR TRANSFORMERS	USING CURRENT OR VOLTAGE RATIOS.	WITH TRANSFORMERS.	1100	TRANSFORMERS.	0 10	C2-16 DO YOU WORK WITH	C2-17 DO YOU WORK WITH RADIO	WORK WITH DON'T	TRANSFORMER.	CITO CALLY DO TOO CHECK TAANSFORMENS FOR OPEN MINDINGS BY	CIAT CZ-20 DO TOU CHECK TRANSFORMERS FOR SHORTED WINDINGS	BY MEASURING RESISTANCE.	CHAR CHART BO YOU CHECK TRANSFORMERS FOR SHORTED WINDINGS

D255 D3-17 D0 YOU MORK WITH DON'T HEMEMBER MHICH TYPE OF FILTER CONFIGURATIONS. D256 D3-18 AFRALLEL RESOMANT CIRCUITS USED IN FILTERS YOU MORK WITH.	0257 03-19 ARE SERIES-PARALLEL CIRCUITS USED IN FILTERS TOU WORK WITH. 0258 03-20 ARE SERIES RESONANT CIRCUITS USED IN FILTERS TOU WORK MITH. 0259 03-21 ARE DON'T REMEMBER WHICH TYPE OF BASIC CIRCUIT	USED IN FILTERS TOU MORK WITH. 0260 D3-22 DO YOU USE EQUATIONS OR FORMULAS TO DETERMINE CAPACITANCE OR INDUCTANCE VALUES REQUIRED FOR SPECIFIC FILTERS. E. COUPLING, SOLDERING, AND RELAYS	EZ61 E1-01 DO YOU WORK WITH COUPLING DEVICES ON YOUR PRESENT JOB. EZ62 E1-02 DO YOU IDENTIFY ON SCHEMATIC DIAGRAMS AND RELATE TO THE ACTUAL CIRCUITRY THE COMPONENTS ASSOCIATED WITH RC COUPLING. EZ63 E1-03 DO YOU IDENTIFY ON SCHEMATIC DIAGRAMS AND RELATE	TO THE ACTUAL CIRCUITRY THE COMPONENTS ASSOCIATED WITH IMPEDANCE COUPLING. £264 E1-04 DO YOU IDENTIFY ON SCHEMATIC DIAGRAMS AND RELATE TO THE ACTUAL CIRCUITRY THE COMPONENTS ASSOCIATED WITH TRANSFORMER COUPLING.	WHICH PERFORM THE RC COUPLING FUNCTIONS. 1266 E1-06 DO YOU TROUBLESHOOT CIRCUITS WHICH HAVE COMPONENTS WHICH PERFORM THE IMPEDANCE COUPLING FUNCTIONS. WHICH PERFORM THE TRANSFORMER COUPLING FUNCTIONS. E268 E1-08 DO YOU BOOK WITH DIRECTLY COUPLED CIRCUITS. E269 F1-09 DO YOU WORK WITH CAPACITIVE-RESISTIVE COUPLED	E270 E1-10 DG YOU WORK MITH CAPACITIVE-INDUCTIVE COUPLED CHCUITS. E271 E1-11 DG YOU WORK MITH TRANSFORMER COUPLED CIRCUITS. E272 E1-12 DG YOU WORK MITH DON'T REMEMBER WHICH TIPE OF	COUPLING CIRCUIT. E273 E2-01 ON YOUR PRESENT JOB DO YOU PERFORM SOLDERING TECHNIQUES OR INSPECT OR EVALUATE SOLDERED CONNECTIONS. E274 E2-02 DO YOU SELECT TYPE OF SOLDER TO USE. E275 E2-03 DO YOU CLEAN CONNECTIONS. E275 E2-05 DO YOU CLEAN CONNECTIONS OF E277 E2-05 DO YOU CLEAN CONNECTIONS USING SOLVENTS. E278 E2-06 DO YOU CLEAN CONNECT NEAT SINKS. E278 E2-06 DO YOU GNUE OR SHAPE WIRES OR LEADS. E280 E2-08 DO YOU CUT WIRES. E281 E2-09 DO YOU CUT WIRES. E281 E2-09 DO YOU CUT WIRES.
6227 D1-43 DO YOU USE OR REFER TO THE GENERAL RULE THAT BANDWIDTH IS INVERSELY PROPORTIONAL TO 9. 0228 D1-44 DO YOU DEFERMINE HOM CHANGES IN FREQUENCY. RESISTANCE. CAPACITANCE, OF INDUTANCE HILL AFFECT	CURRENT, OR PHASE ANGLES U2-01 IN YOUR PRESENT JOB; REFER TO SERIES OR PARALL TIME CONSTANTS. U2-02 DO YOU WORK WITH; US	D231 D2-03 DO YOU MORK WITH, USE, OR REFER TO AVAILABLE D232 D2-04 DO YOU WORK WITH, USE, OR REFER TO TRANSIENT INTERVALS. D233 D2-05 DO YOU USE OR REFER TO THE GENERAL RULE THAT A CAPACITOR IS FULLY CHARGED (OR DISCHARGED) AFTER FIVE	1 0 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5		SPECIFIC TIM CURRENT IN L CURRENT IN L CURRENT OUT YOUR PRESENT	242 03-04 00 YOU ALIGN 243 03-05 00 YOU TROUGH 244 03-06 00 YOU TROUGH CIRCUITS.	D245 D3-07 D0 YOU REMOVE OR REPLACE THE COMPLETE FILTER D246 D3-08 D0 YOU WERNOVE OR REPLACE COMPONENT PARTS OF FILTER CIRCUITS. D247 D3-07 D0 YOU WORK ON HIGH PASS FILTERS. D248 D3-10 D0 YOU WORK ON HIGH PASS FILTERS. D259 D3-11 D0 YOU WORK ON BANDARS FILTERS. D251 D3-12 D0 YOU WORK ON BANDARS FILTERS. D251 D3-13 D0 YOU WORK ON BANDARS FILTERS. D252 D3-14 D0 YOU WORK ON BANDARS FILTERS. D253 D3-15 D0 YOU WORK WITH L-SECTION FILTER CONFIGURATIONS. D253 D3-15 D0 YOU WORK WITH T-SECTION FILTER CONFIGURATIONS. D254 D3-16 D0 YOU WORK WITH PI-SECTION FILTER CONFIGURATIONS.

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INVENTORYIDUTY/TASK TITLES!

_	200	INVENTORY (DUTY/IASK TITLES)	JOBINY PAGE 98 AIR FORCE SYSTEMS COMMAND
	6358	GI-05 DO YOU USE ENERGY LEVEL DIAGRAMS IN YOUR WORK WITH	INTERPRET CIRCUIT DIAGRANS
,	6359	GI-US DO YOU USE PN JUNCTION	6382 61-29 DO YOU USE OR REFER TO VALENCE BAND IN SEMICONDUCTOR MATERIALS
		TOGETHER WITH VALUES OF FORM	6383 61-30 DO YOU USE OR REFER TO FORBIDDEN BAND IN
	6300	VERS	SENICONDUCTOR MATERIALS
		٠,	SENICONDUCTOR MATERIALS
	6361	TOWNS OF TOU USE ON REFER TO THE GENERAL RULE THAT	G385 G1-32 DO YOU USE OR HEFER TO COVALENT BONDING IN
	6362	IDENTIFY SEMICONDUCTOR DIODES AS OPPOSED	G386 G1-33 DO YOU USE OF REFER TO ELECTRON-HOLE PAIR CREATED IN
		OTHER ELECTRONIC COMPONENTS, SUCH AS RESISTORS, BASED ON	SENICONDUCTORS
	6,363	THEIR PHISICAL APPEARANCE	G387 GI=34 DO YOU USE OR REFER TO ELECTRON FLOW OR MOLE FLOW IN SEMILCOMPUTORS
		T FLOW	G386 G1-35 DU YOU USE ON REFER TO DONOR IMPURITY IN
	6364	YOU USE OR REFER TO	SEMICONDUCTORS
		STANCE	6389 GI-36 DO YOU USE OR REFER TO ACCEPTOR IMPURITY IN
	6365	GI-12 DO YOU USE OR REFER TO DIODE COLOR CODING GI-13 DO YOU USE OR REFER TO CENTRIFUGAL FORCE OF AN	SEMICONDUCTORS 6390 61-37 DO YOU USE OR REFER TO P-TYPE SEMICONDUCTOR MATERIAL
		ORBIT AROUND A NUCLEUS	GI-38 DO YOU USE OR REFER TO N-TYPE SEMICONDUCTOR
	6367	USE OR REFER TO	GI-39 DO YOU USE OR REFER TO MAJORITY CARRIERS IN
	6.368	ELECTRON IN ORBIT AROUND A NUCLEUS	01 93334
			SEMICONDUCTORS
,	6369	GI-16 DO YOU USE OR REFER TO KINETIC ENERGY OF AN ELECTRON	6394 G1-41 DO YOU USE OR REFER TO JUNCTION RECOMBINATION IN
	6370	MOVING IN ORBIT GIAIT DO YOU USE OR REFER TO POTENTIAL ENERGY OF AN	SEMICONDUCTORS G395 G1-42 DO YOU USE OR REFER TO DEPLETION REGION IN
-	. 171	ELECTRON MOVING IN ORBIT	
-	200	-	6396 61-43 DO TOU USE OR REFER TO RELATIONSHIP BETWEEN BARRIER
	6372	GITTS DO YOU USE OR REFER TO NUMBER OF ELECTRONS IN A	G397 GI-44 DO YOU USE OR REFER TO THE 10:1 BACK TO FRONT
	111	PARTICULAR SHELL OR ORBIT	
1	1	AN ORBITING ELECTRON	SEMICONDUCTORS
	6374	61-21 DO YOU USE OR REFER TO FORBIDDEN ENERGY LEVELS OF AN	6399 61-46 DO YOU USE ON REFER TO DIODE SUBSTITUTION
-	6375	GRBITING ELECTRON 61-22 DO YOU USE OR REFER TO VALENCE ELECTRONS (THOSE IN	
	6376	THE OUTERMOST SMELL) G1-23 DO YOU USE OR REFER TO ATOMIC NUMBER (TOTAL NUMBER OF	CURRENT DIODE RATINGS 6901 61-48 DO YOU USE OR REFER TO PEAK RECURRENT FORMARD CURRENT
-	6,377	10	
1	6378	MATERIALS ARE USED IN	RATINGS COUNSE OF REFER TO
		RUCTION OF DIODES SUCH	DIODE RA
	,	TEMPERATURE COEFFICIENTS OF RESISTANCE (AS TEMPERATURE	6405 62-02 DO YOU INSPECT TRANSISTORS
			62-03 DO YOU
	6380	CI-27 DO TOU USE OR REFER TO PM JUNCTION DIODE	6407 62-64 00 YOU CYECK TARASISTORS USING AN INSTRUMENT
		CURVES (PERHAPS	AND REVERSE RESISTANCE MEASURENTS
	1010		
	859	GIAZO DO TOU DETERMINE MHETHER PN JUNCTION DIODES ANE FORMARD BIASED OR REVERSE BIASED WHEN YOU READ OR	AND MEVERSE RESISTANCE MEASUREMENTS 6410 62-07 DO TOU USE OR REFER TO ENITTER - COLLECTOR (EC)

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INVENTORY (DUTY/TASK TITLES)

REFER TO RIPPLE AMPLITUDE
REFER TO RIPPLE FREQUENCY
REFER TO PEAK REVERSE (INVERSE) VOLTAGE
REFER TO SHAPE OF OUTPUT WAVEFORMS HUMAN RESOURCES LABORATORY AIR FORCE SYSTEMS COMMAND DO YOU INSPECT POWER SUPPLIES
DG YOU CLEAN POWER SUPPLIES
DO YOU ALIGN OF ADJUST TO POWER SUPPLIES
DO YOU TROUBLESHOOT TO POWER SUPPLY CIRCUIT LEVEL
DO YOU TROUBLESHOOT TO POWER SUPPLY COMPOWENTS
DO YOU REMOVE OR REPLACE COMPLETE POWER SUPPLIES
DO YOU WORK WITH HALF-WAVE RECTIFIERS OTHER THAN HSOS H2-24 DO YOU WORK WITH CIRCUITS WHICH EMPLOY CAPACITIVE INPUT L-TYPE FILTERS MORK WITH CIRCUITS WHICH EMPLOY CAPACITIVE HSOB H2-26 DO YOU BORK BITH CIRCUITS WHICH EMPLOY LC PI-TYPE FILTERS FILTERS HOW WORK WITH CIRCUITS WHICH EMPLOY RC PI-TYPE FILTERS HZ-23 DO TOU MORK WITH CIRCUITS WHICH EMPLOY INDUCTIVE INPUT L-TYPE FILTERS
H507 H2-25 DG YOU WORK WITH CIRCUITS WHICH EMPLOY INDUCTIVE EFFECTIVE OUTPUT VOLTAGE ITH THREE-PHASE RECTIFIERS
REFER TO INPUT FOLLAGE
REFER TO INPUT FREQUENCY
REFER TO PEAK OUTPUT VOLTAGE
REFER TO AVERAGE OUTPUT VOLTAGE REMEMBER WHICH TYPE OF FILTER
HSII H2-29 DO YOU HAVE THE OFTION OF REPLACING ONE TYPE
FILTER WITH A DIFFERENT TYPE FILTER HSIO HZ-28 DO YOU WORK WITH CIRCUITS WHICH EMPLOY DON'T RECTIFIERS O YOU WORK WITH BRIDGE RECTIFIERS REFER TO MORK WITH L-TYPE FILTERS 80 ě 80 80 8 222222222 ¥ 0.0 H2-11 DO FILTERS BRIDGE INPUT H2-04 H2-10 H2-16 H2-20 H2-05 H2-07 H2-12 H2-13 H2-14 H2-15 H2-21 45-09 H2-17 H2-19 1505H 06+H H 502 G#57 G3-30 DO TOU IDENTIFY ON SCHEMATIC DIAGRAMS AND RELATE TO THE ACTUAL CIRCUITRY THE COMPONENTS ASSOCIATED WITH DOUBLE DIODE STABILIZATION G#58 G3-31 DO TOU TROUBLESHOOT CIRCUITS WHICH HAVE COMPONENTS WHICH PERFORM EMITTER (SWAMPING) RESISTOR STABILIZATION G#50 G3-32 DO TOU TROUBLESHOOT CIRCUITS WHICH HAVE COMPONENTS WHICH PERFORM THERISTOR STABILIZATION G#61 G3-34 DO TOU TROUBLESHOOT CIRCUITS WHICH HAVE COMPONENTS WHICH PERFORM THERISTOR STABILIZATION G#61 G3-34 DO TOU TROUBLESHOOT CIRCUITS WHICH HAVE COMPONENTS G#61 G3-34 DO TOU TROUBLESHOOT CIRCUITS WHICH HAVE COMPONENTS G#63 G3-35 DO TOU TROUBLESHOOT CIRCUITS WHICH HAVE COMPONENTS WHICH PERFORM FORWARD BIAS DIODE STABILIZATION G#63 G3-35 DO TOU TROUBLESHOOT CIRCUITS WHICH HAVE COMPONENTS WHICH PERFORM DOUBLE DIODE STABILIZATION G#63 G3-35 DO TOU TROUBLESHOOT CIRCUITS WHICH HAVE COMPONENTS WHICH PERFORM DOUBLE DIODE STABILIZATION G#64 G3-35 DO TOU TROUBLE DIODE STABILIZATION G#64 G3-37 DO TOU IDENTIFY AMPLITUDE DISTORTION FOR TRANSISTOR G465 G3-38 DO YOU TROUBLE SHOOT TRANSISTOR CIRCUITS TO FIND THE CAUSES OF AMPLITUDE DISTORTION G466 G3-39 DO YOU IDENTIFY FREQUENCY DISTORTION FOR TRANSISTOR CIRCUITS
CIRCUITS
CIRCUITS
CIRCUITS
G4-88 G3-41 DO YOU TROUBLE SHOOT TRANSISTOR
CAUSES OF PHASE DISTORTION
CAUSES OF PHASE DISTORTION
G4-89 G3-42 DO YOU TROUBLE SHOOT TRANSISTOR CIRCUITS TO FIND THE CAUSES OF FREQUENCY DISTORTION
6470 63-43 DO YOU WEED TO KNOW THE DEGENERATIVE EFFECTS ON THE
CIRCUIT CAUSED BY CHANGING EMITTER RESISTANCE FOR
TRANSISTOR AMPLIFIERS IN THE COMMON COLLECTOR

CIRCUITS

H512 H3-01 DO YOU 1513 4515 G471 G3-44 DO YOU DETERMINE THE CLASS OF OPERATION FOR AMPLIFIERS IN ORDER TO TROUBLESHOOT AMPLIFIER CIRCUITS G472 G3-45 DO YOU TROUBLESHOOT OR REPAIR PARAPHASE AMPLIFIERS G473 G3-46 DO YOU TROUBLESHOOT OR REPAIR PUSH-PULL AMPLIFIERS G474 G3-47 DO YOU TROUBLESHOOT OR REPAIR COMPLEMENTARY SYMMETRY OR REPAIR COMPOUND-CONNECTED OR REPAIR CASCADE-COMMECTED 6475 63-48 DO YOU TROUBLESHOOT 6476 63-49 DO TOU TROUBLESHOOT CONFIGURATION AMPLIFIERS CIRCUITS

MORK WITH OSCILLATORS IN TOUR PRESENT JOB

H3-02

H3-05 13-07

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SOLID STATE SPECIAL PURPOSE DEVICES. POWER SUPPLIES. AND OSCILLATORS

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TOU IMSPECT OSCILLATORS
TOU ALIGN OR ADJUST OSCILLATORS
TOU REMOVE OR REPLACE COMPLETE OSCILLATORS
TOU REMOVE OR REPLACE OSCILLATOR COMPONENTS
TOU TROUBLESHOOT TO OSCILLATOR COMPONENTS
TOU USE OR REFER TO FEEDBACK
TOU USE OR REFER TO FREQUENCY DETERMINING DE REFER 350 (600) 13-00 43-04 H3-10 13-14 13-11 4519 TOUR PRESENT JOB. DO YOU WORK WITH POWER SUPPLIES OR REFER TO TUNNEL DIODES
OR REFER TO FIELD EFFECT TRANSISTORS
OR REFER TO UNIJUNCTION TRANSISTORS
OR REFER TO ZENER DIODES
OR REFER TO INTEGRATED CIRCUITS TO VARACTORS REFER USE 10-14 11-02 HI-04 H -05 40-1H H2-01 1480

DEVICES

REGENERATIVE FEEDBACK PIEZOELECTRIC EFFECT

FREQUENCY STABILITY

DO YOU USE CH	
1593 13-29 DO YOU USE OR REFER TO CHARACTERISTIC CURVES IN YOUR	SSS 12-01 DO TOU WORK WITH LIMITERS OR CLAMPERS IN YOUR PRESENT JON
1592 13-28 DO YOU USE OR REFER TO ELECTRON TUBE INTERELECTRODE CAPACITANCE	
RESISTANCE	II-15 DO YOU MORK WITH BISTABLE MULTIVIBRATORS
CALLED AC PLATE RESISTANCE	1557 II-IA DO TOU FORK BITH ASTABLE MULTIVIBRATORS
1590 13-26 DO YOU USE OR REFER TO THE ELECTRON TUBE PARAMETER	REMEMBER WHICH TYPE OF FOO
1589 13-25 DO YOU CALCULATE ACTUAL VALUES OF ELECTRON TUBE TRANSCOMDUCTANCES	WORK I
CG. MHICH IS MEASURED IN	549 II-II DO TOU HORK WITH HULTIVIBRATORS WHICH CONTAIN
ETC) AMPLIFICATION FACTORS	METIORIS
1587 13-23 DO YOU USE OR REFER TO MULTIGRID (TETRODE, PENTODE,	CIRCUITS
AMPLIFICATION FACTORS	SAT LIME OF TO TORK MITH MULTIVERIATIONS AND TO TAIN IN IN TAINE CONTONERTS
VOLTAGE)	DE DO YOU REMOVE OR REPLACE WAVE GENERATING OR SHAPING
F CHANGE IN PLA	SHAPING CIRCUITS
FACTOR LINE AMPLIFICAT	545 IL-07 DO YOU REMOVE OR REPLACE COMPLETE WAVE GENERATING OR
YOU USE OR REFER	COMPONENTS
83 13-19 DO YOU USE OR REFER TO	CIRCUITS
13-18 DO YOU USE OR REFER TO	43 11-05 DO YOU TROUBLESHOOT TO WAVE GENERATING OR SHAPING
158) 13-17 DO YOU USE OR REFER TO GRID VOLTAGE	RATE WAVE GENER
13-15 DO YOU USE OR REFER TO	00
RESISTANCE FOR ELECTRON	40 11-02 DO YOU INSPECT WAVE GENERATING OR SHAPING CIRCUI
13-14 DO YOU	11-01 00 YOU
76 13-12 DO YOU USE OR REFER TO	MULTIVIBRATORS, LIMITERS, CLAMPERS, AND ELECTRON TUBES
13-11 DO YOU USE OR REFER TO	
THE DO YOU USE OF REFER	OSCI LIDRS
DO YOU USE OR REFER TO	1938 13-27 DO YOU WORK WITH BUTLER SINUSOIDAL OSCILLATORS
13-07 DO YOU USE OR REFER	H3-25 DO YOU WORK WITH CLAP
1570 13-05 DO YOU USE SUBSTITUTION TO CHECK ELECTRON TUBES	H3-24 DO YOU BORK WITH
8 13-04 DO YOU USE	OSCILLATORS
DO TOU	HORK
4 02 SO-11	WHICH TYPE OF FOR
1565 13-01 IN YOUR PRESENT JOB, DO YOU WORK ON EQUIPMENT WHICH	OSCILLATORS WHICH USE
	FOD FOD YOU WORK WITH OSCILLATORS WHICH USE CRYSTALS AS
3 12-09 DO YOU WORK WITH	9 DO TOU WORK WITH OSCILLATORS WHICH USE RC NETWORKS AS
1960 [2-07 DO YOU KORK KITH TRANSISTOR LIKITERS	WORK WITH OSCILL
12-05 DO YOU WORK WITH	H3-16 DO YOU USE OR REFER TO

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AF HUMAN RESOURCES LABORATORY JOBINY PAGE 102 AIR FORCE SYSTEMS COMMAND	J621 J2-G6 DG YOU TROUBLESHOOT OR REPAIR CIRCUITS IN WHICH THYRATRONS ARE USED J622 J2-07 DG YOU USE OR REFER TO THE PRINCIPLES OF OPERATION ELECTRON GUNS OF CATHODE-RAY TUBES (CRT)	J623 J2-08 DO YOU USE OR REFER TO THE PRINCIPLES OF OPERATION ELECTROMAGNETIC DEFLECTION SYSTEMS OF CATHODE-RAY TUBES (CRT) J624 J2-09 DO YOU USE ON REFER TO THE PRINCIPLES OF OPERATION	ELECTROSTATIC DEFLECTION SYSTEMS OF CATMODE—RA (CRT) 12-10 DO YOU USE OR REFER TO PHOSPHOR SCREENS 12-11 DO YOU USE OR REFER TO AQUADAG COATINGS 12-12 DO YOU USE OR REFER TO ELECTRON OPTICS 12-13 DO YOU USE OR REFER TO PERSISTENCE 12-19 DO YOU USE OR REFER TO PERSISTENCE 12-19 DO YOU USE OR REFER TO PERSISTENCE 12-15 DO YOU USE OR REFER TO FLUORESCENCE	J633 J2-16 DO YOU USE OR REFER TO PHOSPHORESC J632 J3-01 DO YOU WORK ON TRANSMIT OR RECEIVE J633 J3-02 DO YOU PERFORM TASKS ON FREUENCY J634 J3-03 DO YOU PERFORM TASKS ON FREUENCY J635 J3-09 DO YOU PERFORM TASKS ON FREUENCY J635 J3-05 DO YOU PERFORM TASKS ON RECEIVE DIN YOUR WORK WITH TRANSMIT ON RECEIVE DATA	13-06 DO TOU PERFORM TASKS ON MODULATED IN SYSTEMS, AND NUMBERING SYSTEMS, AND NUMBERING SYSTEMS, AND TRANSMIT OR RECE	FRESENT JOB 15 K639 R=02 DO TOU INSPECT AN TRANSMIT OR RECEIVE SYSTEMS K640 KI=03 DO TOU CLEAN AN TRANSMIT OR RECEIVE SYSTEMS K642 KI=04 DO TOU ALIGN OR ADJUST AN TRANSMIT OR RECEIVE SYSTEM K642 KI=05 DO TOU TROUBLESHOOT TO AN TRANSMIT OR RECEIVE K643 KI=06 DO TOU TROUBLESHOOT TO AN TRANSMIT OR RECEIVE K644 KI=07 DO TOU PROOVE OR REPLACE AN TRANSMIT OR RECEIVE	SYSTEMS KI-GB DO YOU REMOVE OR REPLACE AN TRANSMIT OR COMPONENTS KI-TO DO YOU PERFORM TASKS ON RF OSCILLATORS KI-TO DO YOU PERFORM TASKS ON RF AMPLIFIERS	KA44 KI-12 00 YOU PERFORM TASKS ON POWER AMPLIFIER K450 KI-13 DO YOU PERFORM TASKS ON LOCAL OSTILLATO K451 KI-14 DO YOU PERFORM TASKS ON DE MPLIFIERS K453 KI-14 DO YOU PERFORM TASKS ON DOW'T REMEMBER K454 KI-17 DO YOU PERFORM TASKS ON DOW'T REMEMBER K454 KI-17 DO YOU USE OR REFER TO AMPLITUDE STABIL TRANSMITTERS
JOB INVENTORYIDUTY/TASK TITLES!	1595 13-31 DO YOU USE CHARACTERISTIC CURVES TO SELECT PLATE CURRENT FOR A SPECIFIED BIAS 1590 13-32 DO YOU USE CHARACTERISTIC CURVES TO SELECT BIAS REQUIRED FOR CUTOR CUTOR	597 13-33 DO TOU USE CHARACTERISTIC CURVES TO SELECT BIAS REQUIRED FOR SATURATION 598 13-34 DO TOU USE OR REFER TO ELECTRON TUBE AMPLIFIER GAIN 599 13-35 DO TOU USE OR REFER TO ELECTRON TUBE AMPLIFIER	TEST TUBE CHECKERS TO DETINAL INCLUDED TO DETERMINE IN DETERMINE IN DETERMINE IN DETERMINE THE DESCREAMINE THE MARKETER ISTIC CURVES TO DE	ELECTRON TUBE AMPLIFIER GAIN 13-40 DO YOU CALCULATE AN EL AS INDUT CAPCITALE 13-41 DO YOU USE OR REFER TO 13-42 DO YOU USE OR REFER TO 13-43 DO YOU USE OR REFER TO 13-43 DO YOU USE OR REFER TO OPERATING TEMPERATURE OF THE	1638 13-44 DO YOU USE OR REFER TO TUBE SUBSTITUTION MATERIAL SUCH AS MANUALS OR CHARTS J. ELECTRON TUBE AMPLIFIERS AND CIRCUITS, SPECIAL PURPOSE ELECTRON TUBES, HETERODYNING, MODULATION,	JOST JI-DI DO YOU WORK WITH ELECTRON TUBE AMPLIFIERS OR CIRCUITS IN TOUR PARSENT JOB JOSTO JI-DI DO YOU DETERMINE THE CLASS OF OPERATION FOR ELECTRON TUBE AMPLIFIERS IN ORDER TO TROUBLESHOOT AMPLIFIERS GIRCUITS JOSTO TROUBLESHOOT OR REPAIR PARAPHASE AMPLIFIERS JOSTO TROUBLESHOOT OR REPAIR PUSH-PULL AMPLIFIERS	JI-US DO YOU TROUBLESHOOT OR REPAIR COMPOUND-CONNECTED AMPLIFIERS JI-US DO YOU TROUBLESHOOT OR REPAIR CASCADE-CONNECTED AMPLIFIERS JI-US DO YOU TROUBLESHOOT OR REPAIR DON'T KNOW WHICH IT OF AMPLIFIER	CATHODE: CATHODE: CATHODE: LOOT TOU WORK WITH CATHODE-RAY TUBES JOIN JZ-02 DO YOU WORK WITH CATHODE-RAY TUBES JOIN JZ-03 DO YOU USE OF REFER TO THE CHARACTERISTICS OF BEAM JOIN JZ-03 DO TOU TROUBLESHOOT OR REPAIR CIRCUITS IN WHICH BEAM JOHN JZ-09 DO YOU USE OR REFER TO THE CHARACTERISTICS OF THYRATROMS

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NOTE WITCH DO TOU EXTEND THE RANGE OF VOLTHETERS	To the state of th	TOU TERO THE MANGE OF ANNETERS	STATE OF THE MENT OF STATES	OF RAL SPRINGS	CONCESSION CONSIDER OF LOSS OF THE PARTY OF	COILS	CONCELLATING ON CONSIDER THE EARCHIONS OF	PERHANENT NAGHETS	OF HI-OZ DO YOU CONCEPTUALIZE OR CONSIDER THE FUNCTIONS OF	WI-OI DO YOU WORK WITH METERS IN YOUR PRESENT JOB		KANANTO ATTO HERMAN . AND KANANTA DIETO TENDETTO	LETTER HOVERSTAND, S. T. C. D.	GENERATORS	CONTROL OF GENERALORY	TROUBLESHOOT AS FAR AS CHECKING WIRE	A3-27 DO TOU REMOVE OF REPLACE GENERATOR PARTS	H3-26 DO YOU REMOVE OR REPLACE COMPLETE GENERATORS	H3-25 DO YOU OPERATE GENERATORS	H3-24 DO YOU CLEAN OR LUBRICATE GENERATORS	HOSE HOLES DO TOU THE WORK WITH SOME COMBINATION OF THE ABOVE MOTORS	THE NAME OF THE PROPERTY OF TH	ESTAD DO YOU BORK WITH INDUCTION HOTORS	HI-19 DO YOU WORK WITH SYNCHRONOUS MOTORS	OR DIRE	795 MUNICATION OF THE WALLET ON ME SOURCE THE MACHINES	MANAS HELT DO TOU DETERMINE OR REASONE THE DIRECTION OF THE	FORCE OR TORQUE CREATED BY A MOTOR	H3-16 DO YOU DETERHINE OR MEASURE THE NAGNITUDE OF THE	13-15 DO YOU PERFORM ANY TASKS ON POLE PIECES	TOU PROFICE AND TAKES ON CONSULTATIONS	13-12 DO YOU PERFORM ANY TASKS ON BRUSHES	H3-11 DO YOU PERFORM ANY TASKS ON	HI-10 DO YOU PERFORM ANY TASKS ON	3-09 00	CONNECTIONS OF MOTORS	100	HI-06 DO YOU REMOVE OR REPLACE HOTOR PARTS	3 M3-05 DO YOU REMOVE OR REPLACE COMPLETE MOTORS	H3-04 DO YOU OPERATE HOTORS	0 0	DENERALORS INCO	WITH ALTERNATING CURRENT OR DIRECT CURRENT MOTORS OR
HOLD NOT THE RECTANGULAR MAVE GENERATORS	200000000000000000000000000000000000000	AND GOLFOT CONFIGURATION	DIFFERENTIATING OR INTEGRATING BAVED ON THE TIME CONVIANT	AGEN AND OF TOU DETERMINE WHETHER AN LE OR RC CIRCUIT IS	COMPLANTS LICY NO LONG	ABAL W3-08 DO TOU USE OR REFER TO THE CLASSIFICATION OF TIME	W3-U7 DO TOU USE OR REF	N3-06 DO YOU USE OR REFER TO	(PKF)	N3-05 DO YOU USE OR REFER TO PULSE	N3-04 DC YOU USE OR	TO WITCH DO YOU USE ON REFER TO	108	VASTA V3-01 DO TOU MORK WITH WAVESHAPING CIRCUITS IN TOUR PRESENT	STAND S TOO TOO USE ON REPEN TO SHICKABLE REACTOR SCHEMATIC	SATURABLE REACTORS	H832 N2-15 DO YOU USE OR REFER TO POINT OF SATURATION IN	REACTORS	V831 N2-14 DO YOU USE OR REFER TO FLUX DENSITY IN SATURABLE	SATURABLE REACTORS	MEACTORS MEACTORS MEACTORS MEACTORS	NOZY NZ-12 DO TOU USE OR REFER TO COERCIVE FORCE IN SATURABLE	WAVEFORMS FOR MAGNETIC	1.828 NZ-11 DO YOU INTERPRET SCHEMATIC DRAWINGS TO DEVELOP OUTPUT	BEATTORY	MINDINGS OF TOTAL BEST STORE OF STREET MANUAL MENGLISH		-	N2-09 DO YOU INTERPRET	N825 N2-08 DO TOU USE OR REFER TO HYSTERESIS CURVES OR LOOPS	SATURABLE RESOLUTION COMPONENTS	SATURABLE REACTORS	N823 N2-06 DO YOU REMOVE OR REPLACE MAGNETIC AMPLIFIERS OR	REACTORS	ACACTORS OF THE TROUBLE STROOT MAGNETTS AND THITRE OR SATURABLE	NBZI NZ-04 DO YOU ADJUST MAGNETIC AMPLIFIERS OR SATURABLE	REACTORS	N820 N2-03 DO YOU CLEAN MAGNETIC AMPLIFIERS OR SATURABLE	REACTORS	NB19 NZ-02 DO YOU INSPECT MAGNETIC AMPLIFIERS OR SATURABLE	AMPLIFIERS IN YOUR PRESENT JOB	CENTRESSED IN ONLIS OF	-

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02-33 DO YOU USE OR REFER TO PEAK POWER 02-34 DO YOU USE OR REFER TO AVERAGE POWER 02-35 DO YOU CALCULATE PULSE RECURRENCE TIME (PRT) OR PULSE 02-36 DO TOU MEASURE PULSE RECURRENCE TIME (PRT) OR PULSE OR REFER TO PULSE RECURRENCE TIME (PRT) OR REFER TO PULSE WIDTH (PM) DO YOU WORK ON PULSE-CODE MODULATION (PCM) SYSTEMS 0903 02-29 00 YOU USE OR REFER TO PULSE KECURRENCE FREQUENCY OR REPLACE PULSE MODULATION SYSTEMS OR REPLACE PULSE MODULATION SYSTEM DETECTORS
0900 02-26 DO YOU PERFORM TASKS ON PULSE MODULATION SYSTEM
VIDEO AMPLIFIERS
0901 02-27 DO YOU PERFORM TASKS ON PULSE MODULATION SYSTEM
POWER VIDEO AMPLIFIERS HODULATION SYSTEM PULSE TRANSFORMERS

0895 02-21 DO TOU PERFORM TASKS ON PULSE MODULATION SYSTEM
TRANSMITTER TUBES

0894 07 07 07 07 PERFORM TASKS ON PULSE MODULATION SYSTEM
AMPLIFIERS

0897 07-23 00 700 PERFORM TASKS ON PULSE MODULATION SYSTEM POWER SUPPLIES
0890 02-16 DG YOU PERFORM TASKS ON PULSE MODULATION SYSTEM
CHARGING CHOKES AND CHARGING DIODES 0902 02-28 DO YOU PERFORM TASKS ON PULSE MODULATION SYSTEM 0889 02-15 DU YOU PERFORM TASKS ON PULSE MODULATION SYSTEM 0891 02-17 DO YOU PERFORM TASKS ON PULSE MODULATION SYSTEM 0892 02-18 DO YOU PERFORM TASKS ON PULSE MODULATION SYSTEM C893 02-19 DO TOU PERFORM TASKS ON PULSE MODULATION SYSTEM FREGUENCY CONVERTERS 0898 32-24 DO YOU PERFORM TASKS ON PULSE MODULATION SYSTEM 0899 02-25 DO YOU PERFORM TASKS ON PULSE MODULATION SYSTEM 3883 02-39 DO YOU WORK ON PULSE-AMPLITUDE MODULATION (PAM) 02-13 00 YOU #0RK ON LINE PULSING MODULATION SYSTEMS 02-14 00 YOU WORK ON DON'T REMEMBER WHICH TYPE OF DON'T REMEMBER WHICH PULSE MODULATION SYSTEM STAGES 02-11 DO YOU WORK ON PULSE-POSITION MODULATION (PPM) ON PULSE-DURATION MODULATION SWITCHES SUCH AS GAS THYRATRONS 0894 02-20 00. YOU PERFORM TASKS ON PULSE MODULATION TO PULSE SHAPE RECURRENCE FREQUENCY (PRF) RECURRENCE FREQUENCY (PRF) PULSE FORMING NETWORKS 02-07 DC YOU REMOVE 02-08 DO YOU REMOVE HODULATION SYSTEM 0884 02-10 00 YOU WORK 0904 02-30 DO 700 USE 0905 02-31 DO 700 USE 350 NON OF IF AMPLIFIERS COMPONENTS SYSTEMS SYSTEMS STSTEMS TIMERS 02-13 02-12 0000 0000 0160 0886 3885 BANDWIDTH FILTERS
0872 01-28 DO TOU CALCULATE PEAK POWER OR EFFECTIVE POWER OF 558
TRANSHITTERS SSB DON'T REMEMBER WHICH SSB 00 TOU PERFORM TASKS ON SSB BALANCED MODULATORS
00 YOU PERFORM TASKS ON SSB CARMIER OSCILLATORS
00 YOU PERFORM TASKS ON SSB CC FILTERS
00 YOU PERFORM TASKS ON SSB CCTANICAL FILTERS
00 YOU PERFORM TASKS ON SSB OSCILLATORS
00 YOU PERFORM TASKS ON SSB OSCILLATORS
00 YOU PERFORM TASKS ON SSB POWER APPLIFIERS
00 YOU PERFORM TASKS ON SSB FREQUENCY CONVERTERS
00 YOU PERFORM TASKS ON SSB POWENTANING CONVERTERS
00 YOU PERFORM TASKS ON SSB POWENTANING CONVERTERS 0873 01-29 00 YOU TRACE SIGNALS OR CURRENT PATHS THROUGH 558
TRANSMITTER SCHEMATIC DIAGRAMS
0874 01-30 DO YOU TRACE SIGNALS OR CURRENT PATHS THROUGH 558
0875 02-01 DO YOU WORK ON PULSE HODULATION SYSTEMS IN YOUR SSB TRANSMIT OR RECEIVE REMOVE OR REPLACE SSB TRANSHIT OR RECEIVE 02-02 DG YOU INSPECT PULSE MODULATION SYSTEMS
02-03 DG YOU ALIGN PULSE MODULATION SYSTEMS
02-04 DG YOU ALIGN PULSE MODULATION SYSTEMS
02-05 DG YOU TROUBLESHOOT TO PULSE MODULATION SYSTEMS AUDIO AMPLIFIERS BALANCED MODULATORS CARRIER OSCILLATORS INSPECT 559 TRANSHIT OR RECEIVE SYSTEMS CLEAN SSB TRANSHIT OR RECEIVE SYSTEMS ALIGN SSB TRANSHIT OR RECEIVE TROUBLESHOOT TO SSB TRANSHIT OR RECEIVE MORK ON SINGLE SIDERAND SYSTEMS IN YOUR DASO 01-06 DO YOU TROUBLESHOOT TO SSB TRANSMIT OR RECEIVE SYSTEM STAGES
SYSTEM STAGES
OBAG 01-24 DO YOU USE OR REFER TO PEAK POWER
OB40 01-25 DO YOU USE OR REFER TO FEAK POWER
OB70 01-25 DO YOU USE OR REFER TO FREQUENCY STABILITY OR REPLACE 0863 01-19 00 YOU PERFORM TASKS 0W 0864 01-20 00 YOU PERFORM TASKS 0W 0866 01-22 00 YOU PERFORM TASKS 0W 0867 01-23 00 YOU PERFORM TASKS 0W SINGLE SIDEBAND SYSTEMS, PULSE SYSTEMS, AND ANTENNAS TASKS DO YOU PERFORM TO YOU PERFORM REHOVE 00 400 100 100 0851 01-07 00 YOU 100 0845 01-01 00 700 DO 700 COMPONENTS COMPONENTS COMPONENTS 00 PRESENT 00 +0-10 00 00 00 PRESENT SYSTEMS 90-10 2090 91-10 91-10 61-10 0876 02-02 01-03 01-00 01-10 01-17 01-05 9880 0863 0878 0359 0861 0819 0880 0855 1490 0877 6480 9500 0980

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AIR FORCE SYSTEMS COMMAND

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0930 03-16
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0913 02-39 DO YOU TRACE SIGNALS OR CURRENT PATHS THROUGH PULSE
MODULATION RECEIVER SCHEMATIC DIAGRAMS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           0912 02-38 DO YOU
                                                                                                                                                                   AND MAGNETIC (HI COMPONENTS IN ANTENNA RADIATION FIELD ON TO THE OR REFER TO THE TIME PHASE OF ELECTRIC (E)
                                                                                                                                                                                                                                                                                                                                                                      0938 03-25 DO YOU MEASURE ELECTROMAGNETIC RADIATION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        0928 03-15 00
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   1921 03-08 DO YOU REHOVE OR HASTALL ANTENNAS

0122 03-09 DO YOU REHOVE OR REPLACE COMPONENTS OF ANTENNAS

0122 03-09 DO YOU USE OR REFER TO TECHNICAL DATA CONTAINING

022 03-10 DO YOU USE OR REFER TO TECHNICAL DATA CONTAINING

022 03-11 DO YOU USE OR REFER TO TECHNICAL DATA CONTAINING

022 03-12 DO YOU USE OR REFER TO TECHNICAL DATA CONTAINING

03-12 DO YOU USE OR REFER TO TECHNICAL DATA CONTAINING

10 RELATION TO THE ELECTRIC FIELD LINES

10 POU USE OR REFER TO THE GENERAL RULE THAT

ANTENNAS WHICH ARE OF CORRECT LENGTH (HALF-WAVE) ACT AS

100-14 DO YOU USE OR REFER TO THE GENERAL RULE THAT ANTENNAS

1927 03-14 DO YOU USE OR REFER TO THE GENERAL RULE THAT ANTENNAS

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1928 03-15 DO YOU USE OR REFER TO THE CONTON THE CO
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O3-18 DO YOU WORK MITH BROADSIDE ARRAYS
O3-19 DO YOU WORK MITH END-FIRE ARRAYS
O3-20 DO YOU WORK MITH CARDIOID ARRAYS
O3-21 DO YOU WORK MITH COLLINEAR ARRAYS
O3-22 DO YOU WORK MITH COLLINEAR ARRAYS
O3-27 DO YOU WORK MITH COLLINEAR ARRAYS
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JOHINY PAGE

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TO "A" WALL OF MAVEGUIDES
TO "B" MALL OF MAVEGUIDES
TO CUTOFF FREQUENCY OF WAVEGUIDES
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DIRECTION OF PROPAGATION, DIRECTION OF "E" FIELD, OR
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                                                                                                                                                                                                                                                         OR REFER TO MAGNETIC FIELD BOUNDARY
                                                                                                                                                                                                                                                                                                                      OR REFER TO DUPLEXER FIELD BOUNDARY
                                                                                                                                                                                                       OR REFER TO ELECTRIC FIELD BOUNDARY
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RESONATORS YOU WORK WITH
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                                                                                                                 MAVEGUIDES
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                                                                                                                                                                                                                                                                                                                                                                                                         90
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PRIES FOR PARTICULAR FREQUENCIES
LINES FOR PARTICULAR FREQUENCIES
PRIES FOR PARTICULAR FREQUENCIES
PRIES FOR PARTICULAR FREQUENCIES
ELECTRICAL LENGTH FOR GIVEN FREQUENCIES
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DO YOU CLEAN HAVEGUIDES OR CAVITY RESONATORS
DO YOU BEND MAYEGUIDES OR CAVITY RESONATORS
DO YOU TWIST MAYEGUIDES OR CAVITY RESONATORS
DO TOU PRESSURIZE MAYEGUIDES OR CAVITY RESONATORS
DO TOU PRESSURIZE MAYEGUIDES OR CAVITY RESONATORS
DO TOU TROUBLESHOOT MAYEGUIDES OR CAVITY RESONATORS
DO TOU TROUBLESHOOT MAYEGUIDES OR CAVITY RESONATORS
DO TOU TROUBLESHOOT MAYEGUIDES OR CAVITY RESONATORS
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         DIRECTIONAL COUPLERS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              REMOVE OR INSTALL MAVEGUIDE SECTIONS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ROTATING JOINTS
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POST TRAVELING	EPLACE PARAMETRIC AMPLIFIER
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POOL PI-58 DO TOU USE OR REFER TO THE OPERATING PRINCIPLES OF	AND THE EST TO THE CONTROL OF THE CO
POSC 83-57 DO YOU USE OR REFER TO THE OPERATING PRINCIPLES OF	1-25 OF TOO TOO ACCOUNT TARABLE HIC AMPLIFICATION OF TOO TOO TOWN ON THE TOO TO THE TOO TOO TOO TOO TOO TOO TOO TOO TOO TO
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GRIDS OR REFER	P3-13 00 YOU MORK MITH UP-CONVENTER PARAMETRIC AMPLIFIERS P
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PUT9 PAINS DO YOU USE OR REFRE TO THE OPERATING PRINCIPLES OF	HODGEATION RESIDENT TO SECOND MINISTER SECOND
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POTE PARTIT KLTSTRONS FEEDBACK LOUPS OF PARTING PRINCIPLES OF	DO TOU USE OR REFER TO INTERELECTRODE CAPACITANCE
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	1126	SIZE 13-01 IN YOUR PRESENT JOB, DO YOU HORK WITH DIGITAL-TO-
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		ANALOG-TO-DIGITAL (A/D) CONVERTER CIRCUITS
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		RIMI R2-01 IN YOUR PRESENT JOB DO YOU NORK WITH SCHMITT TRIGGER		RIM3 R2-03 DO YOU USE ON REFER TO SCHMITT TRIGGER LOGIC SYMBOLS	10	
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PHANTASTRONS, SCHMITT TRIGGERS, AND CABLE FABRICATION	PING RI-UI DO YOU MORK MITH PHANTASTRON CIRCUITRY IN YOUR PRESENT JOB	C18CUITS	RIM2 R2-02 DO YOU TRACE DATA FLOW THROUGH SCHMITT TRIGGER SCHEMATIC DIAGRAMS	0	z	CABLES R3-02 DO TOU FABRICATE COAXIAL CABLES
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IMPUTIOUTPUT DEVICES. PHOTO SENSITIVE DEVICES, AND STHCHROHOUS VIBRATIONS

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SYSTEMS SYSTEMS OF REFER TO VOLATILITY OF MEMORY SYSTEMS

CONVENTERS
03-14 DO YOU PERFORM ANY TASKS ON MECHANICAL ANALOG-TO-

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CONVERTERS
4137 43-12 DO YOU USE OR REFER TO COMPARE FUNCTION OF A/D
CONVERTERS
9138 93-13 DO YOU USE OR REFER TO DIGITAL FUNCTION OF A/D

4135 93-10 DO YOU USE OR REFER TO SAMPLE FUNCTION OF A/D CONVERTERS 4136 03-11 DO YOU USE OR REFER TO HOLD FUNCTION OF A/D

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SI-02 DO YOU PERFORM ANY TASKS ON NIXIE LIGHTS OR NIXIE
LIGHT DECODER SYSTEMS
SI-03 DO YOU ANALYZE NIXIE LIGHT DECODER SYSTEMS USING
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YOU HEASURE EXCITATION FREQUENCIES
YOU HEASURE VOLTAGE-CURRENT PHASE RELATIONSHIPS
YOU USE OR REFER TO YOUTAGE-CURRENT PHASE
YOU USE OR REFER TO YOUTAGE-CURRENT PHASE
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YOU ADJUST OR CALLURATE INFRARED SYSTEMS
YOU OPERATE INFRARED SYSTEMS
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PERFORM TASKS ON BLITZ
PERFORM TASKS ON TARGET BUTTONS
PERFORM TASKS ON EMECTOR LENSES
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YOU PERFORM TASKS ON CORRECTION LENSES
YOU PERFORM TASKS ON SPHERICAL MIRRORS
YOU PERFORM TASKS ON SPHERICAL MIRRORS
YOU PERFORM TASKS ON PLANE MIRRORS
YOUR PRESENT JOB INVOLVE ANY TASKS DEALING MITH
                                     YOU WORK WITH GALLIUM ARSCHIDE TO DISPLAT TUBES, DIRECT VIEW STORAGE (DVST) OR HULTIPLE MODE
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  CLEAN DYST OR MIST
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USE OR REFER TO COMERENCE OR INCOMERENCE
USE OR REFER TO INVERSION LEVEL
USE OR REFER TO MONOCHRONATIC
MORK WITH ACTIVE MATERIALS
                                                                               MORE WITH MEODYHIUM IN GLASS
                                                                                       MORK WITH CESTUM-HELIUM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    OPERATE LASER SYSTEMS
                                                                                                                  MORK WITH KENON
                                                                                                                                HORK WITH HELJUN-XENON
                                                                                                                                                                                               WORK WITH HALF SILVERED 1928 REFLECTIVE!
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THE VARIOUS ELEMENTS OF DVST

T228 13-09 DO YOU PERFORM TASKS THAT MAKE IT NECESSARY TO NAME

THE VARIOUS ELEMENTS OF MMST

T239 13-10 DO YOU PERFORM TASKS ON MRITE GUNS

T230 13-12 DO YOU PERFORM TASKS ON MRITE GUNS

T231 13-12 DO YOU PERFORM TASKS ON ERASE GUNS

T231 13-14 DO YOU PERFORM TASKS ON STORAGE GRIDS
                                                                                                              CIRCUITS
T226 T3-07 DO YOU REMOVE OR REPLACE DVST OR MMST TUBES FROM MAJOR ASSEMBLIES OR UNITS
T227 T3-08 DO YOU PERFORM TASKS THAT MAKE IT MECESSARY TO NAME
1223 13-04 DO YOU ADJUST OR CALIGRATE DVST OR MMST
1224 13-05 DO YOU OPERATE SYSTEMS THAT CONTAIN DVST OR MMST
1225 13-06 DO YOU TROUBLESHOOT DVST OR MMST
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U PROGRAMMING. DB AND POWER RATIOS

235 UI-03 DO YOU USE OR REFER TO DECIMAL SYSTEMS
236 UI-03 DO YOU USE OR REFER TO PROGRAMS
237 UI-04 DO YOU USE OR REFER TO PROGRAMS
238 UI-05 DO YOU USE OR REFER TO FOUR SYSTEMS
240 UI-07 DO YOU USE OR REFER TO FOUR SYSTEMS
241 UI-08 DO YOU USE OR REFER TO FOUR SYSTEMS
242 UI-07 DO YOU USE OR REFER TO FOUR SYSTEMS
243 UI-10 DO YOU USE OR REFER TO DATA WORDS
244 UI-11 DO YOU USE OR REFER TO ADDRESS WORDS
245 UI-12 DO YOU USE OR REFER TO STERRING TO FOUR SYSTEMS
246 UI-13 DO YOU USE OR REFER TO STERRING LEVEL PROGRAMING
246 UI-13 DO YOU USE OR REFER TO STERRING TO PROGRAMING
247 UI-14 DO YOU USE OR REFER TO STERRING TO PROGRAMING
248 UI-15 DO YOU PERFORM TASKS ON STORAGE DEVICES
250 UI-17 DO YOU PERFORM TASKS ON STORAGE DEVICES
251 UI-20 DO YOU PERFORM TASKS ON OUTPOUT DEVICES
252 UI-19 DO YOU PERFORM TASKS ON OUTPOUT DEVICES
253 UI-20 DO YOU PERFORM TASKS ON OUTPOUT DEVICES
254 UI-21 DO YOU PERFORM TASKS ON OUTPOUT DEVICES
255 UI-20 DO YOU PERFORM TASKS ON OUTPOUT DEVICES
255 UI-21 DO YOU PERFORM TASKS ON POWER SUPPLIES
255 UI-21 DO YOU PERFORM TASKS ON POWER SUPPLIES
255 UI-21 DO YOU PERFORM TASKS ON POWER SUPPLIES U234 UI-OI IN YOUR PRESENT JOB, DO YOU PERFORM ANY PROGRAMING U235 U1-02 U236 U1-03 0239 0243 0240 U259 U251 U251 U253 U253 0238 0247 0237 9470

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This report summarizes the results of the administration of the Electronics Principles survey to airmen assigned to Integrated Avionic Systems specialties including 326X2A, Inertial/Bomb Navigation, Fire/Weapons Control, Digital Computers, and Multi-sensor Displays; 326X2B, Flight Control, Flight Data Recorders, and Integrated/Mechanical Instrument Duties; and the 326X2C, Communications, Navigation, and ECM Systems. The report gives a detailed listing of the technical tasks and knowledge needed to perform the jobs within the

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